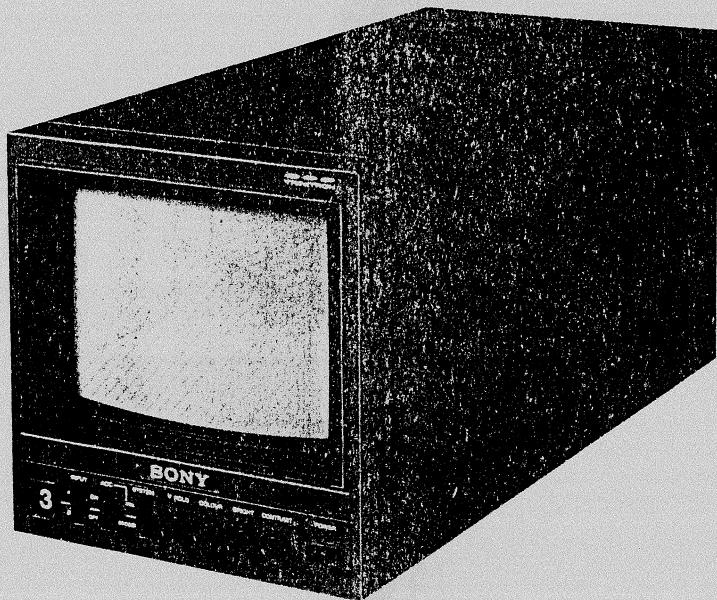


# PVM-9010ME

Chassis No. SCC-247B-A



## TRINITRON® COLOUR VIDEO MONITOR

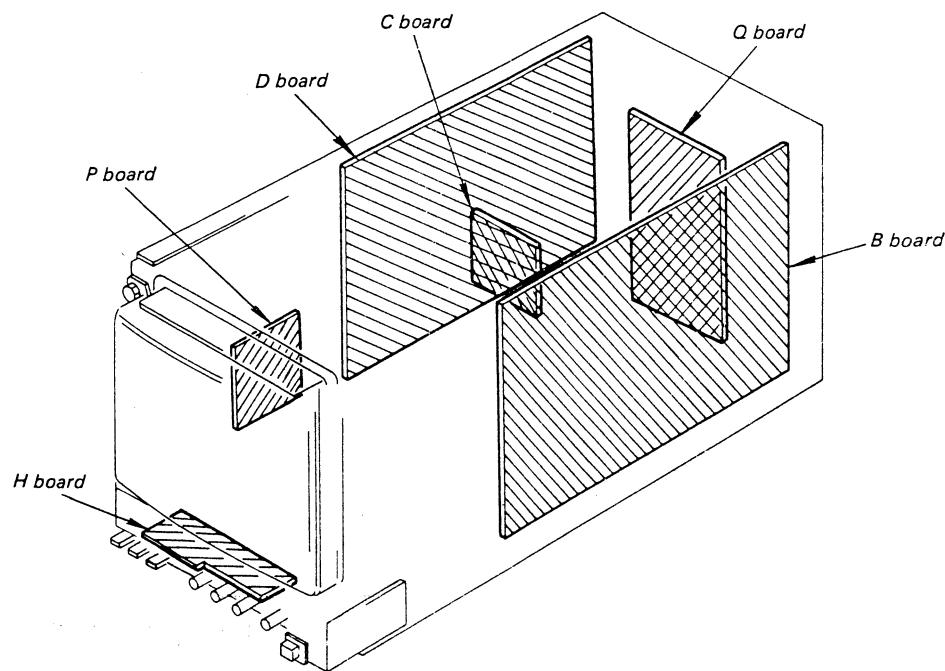
### SPECIFICATIONS

Television System:	CCIR TV standards (system B and G)
Colour System:	PAL/SECAM
Picture Tube:	22 cm, 9" (screen measured diagonally), 70° deflection TRINITRON system
Video System:	R.G.B. cathode drive
Video Input:	0.7 Vp-p non-composite or 1 Vp-p composite video signal $\pm 6$ dB positive
Sync Input:	4 Vp-p $\pm 6$ dB negative
Video/Sync Input Impedance:	High-impedance for loop-through $75 \Omega$ terminated
Anode Voltage:	18 kV at zero beam current
Power Requirements:	220/240 V ac 50/60 Hz
Power Consumption:	60 W ac (max.)
Dimensions:	Approx. 216 (w) x 229 (h) x 521 (d) mm $8\frac{1}{2}$ (w) x $9\frac{1}{8}$ (h) x $20\frac{1}{2}$ (d) inches including projecting parts and controls Approx. 216 (w) x 220 (h) x 521 (d) mm $8\frac{1}{2}$ (w) x $8\frac{5}{8}$ (h) x $20\frac{1}{2}$ (d) inches excluding bottom feet
Weight:	Approx. 12 kg (26 lb 7 oz)
Supplied Accessories:	Number plates Instruction manual

### SAFETY-RELATED COMPONENT WARNING !!

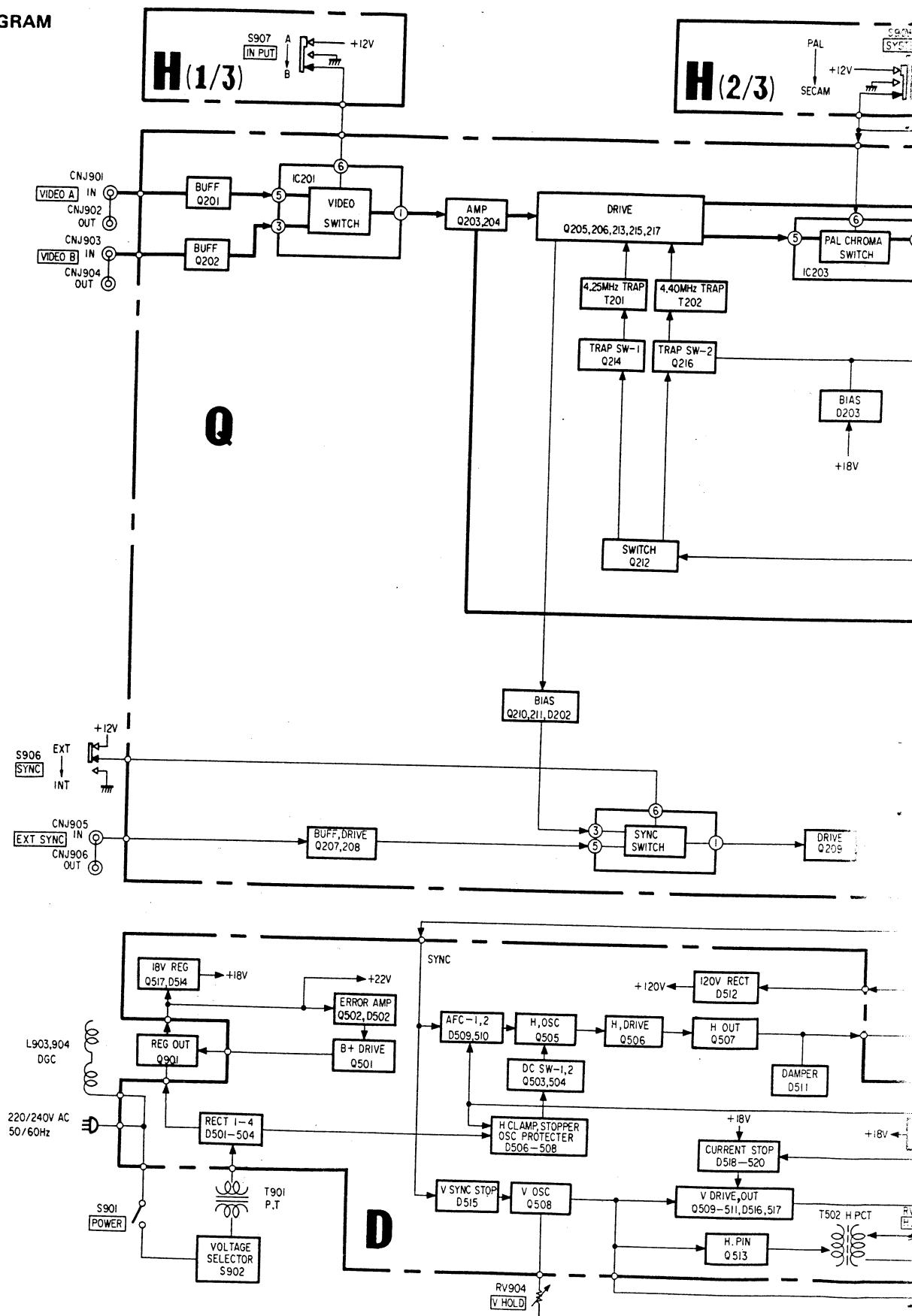
COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

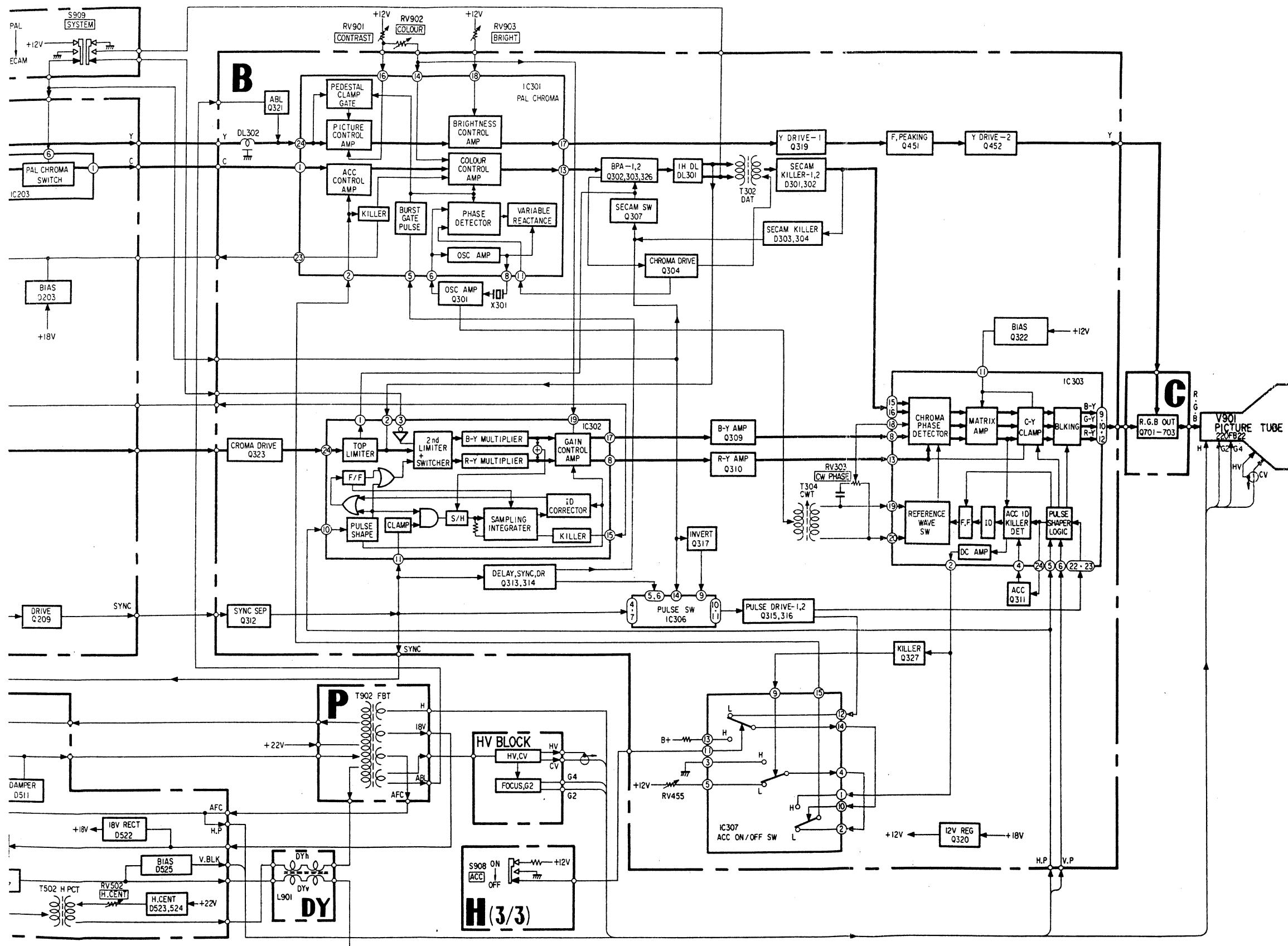
**SONY®**  
**SERVICE MANUAL**

**CIRCUIT BOARDS LOCATION**

# SECTION 1 OUTLINE

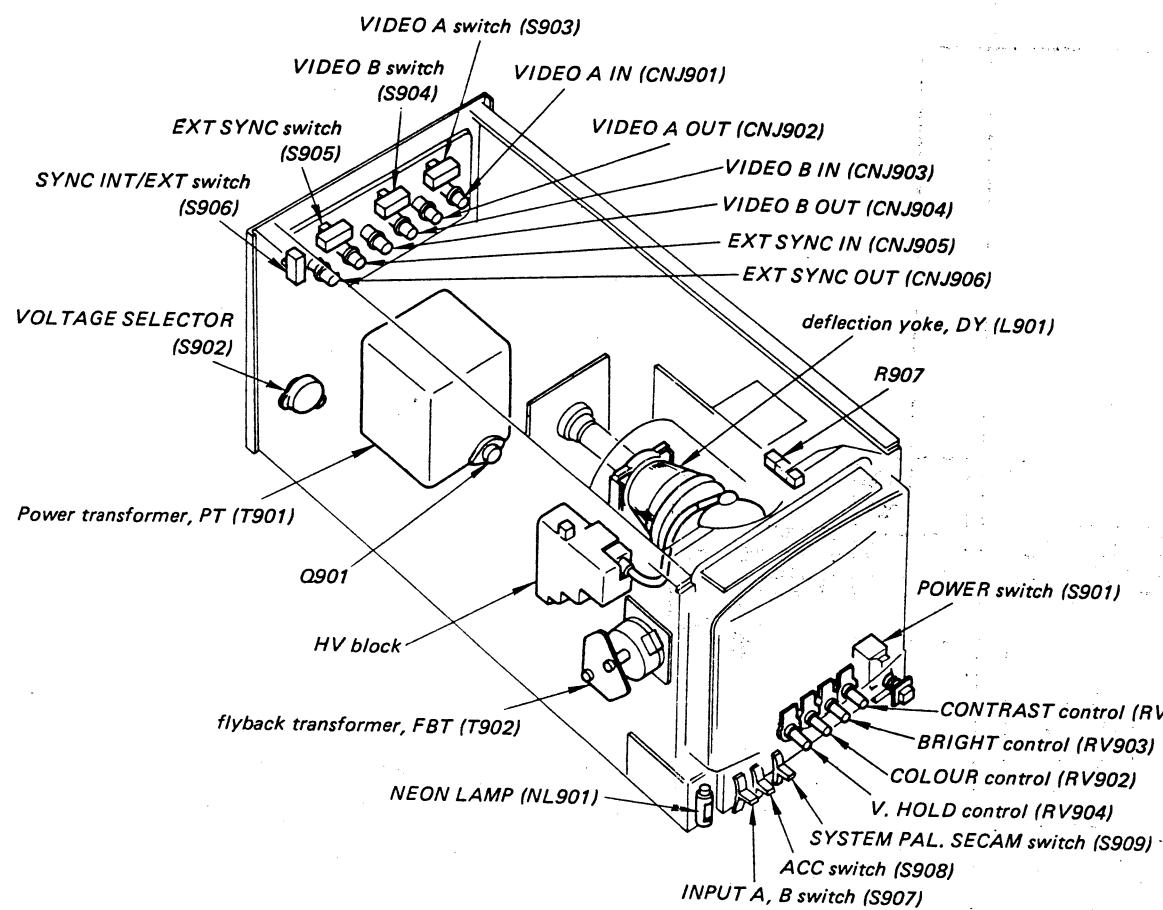
## 1-1. BLOCK DIAGRAM





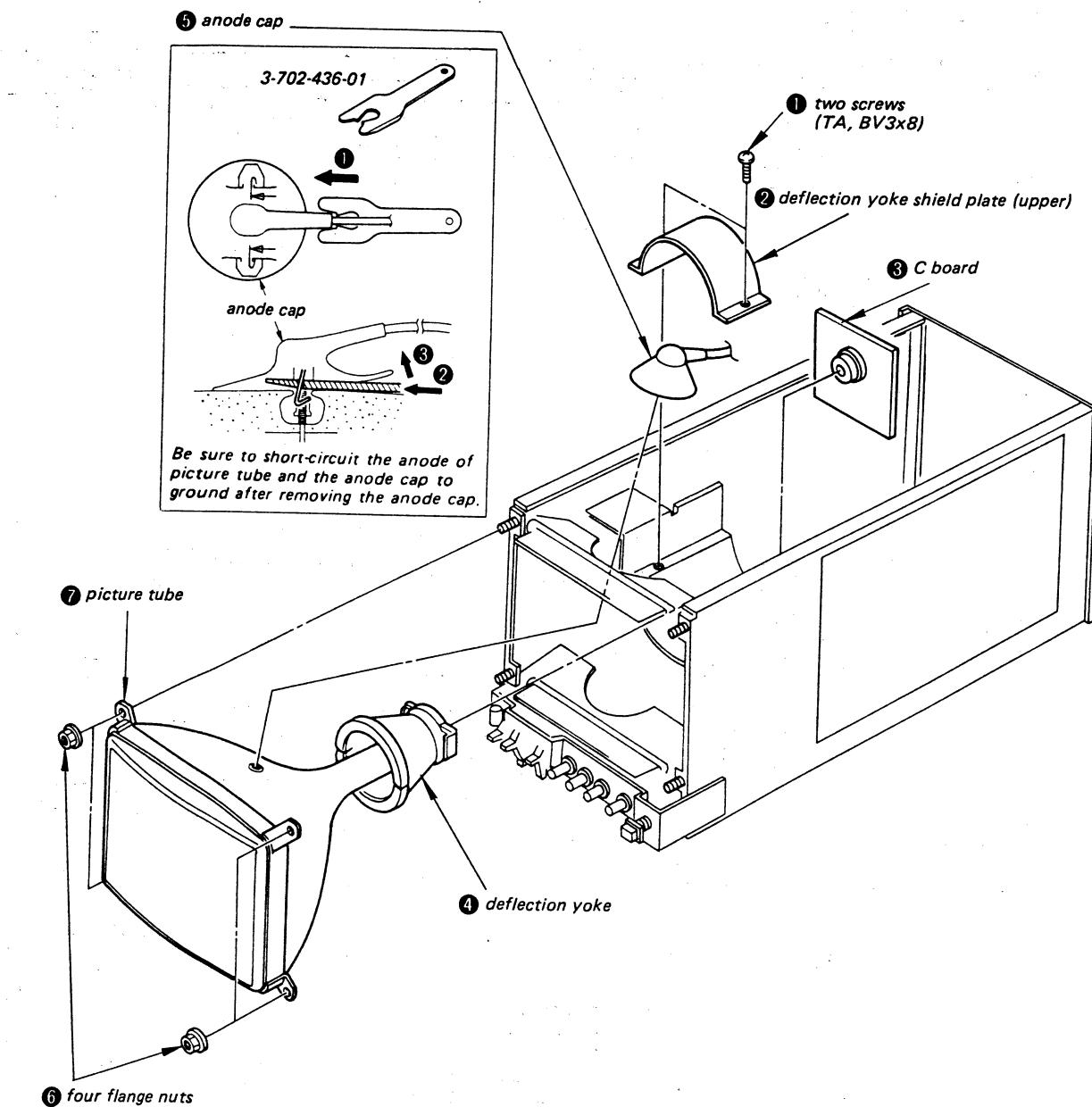
## SECTION 2 DISASSEMBLY

### 1-2. INTERVAL VIEW



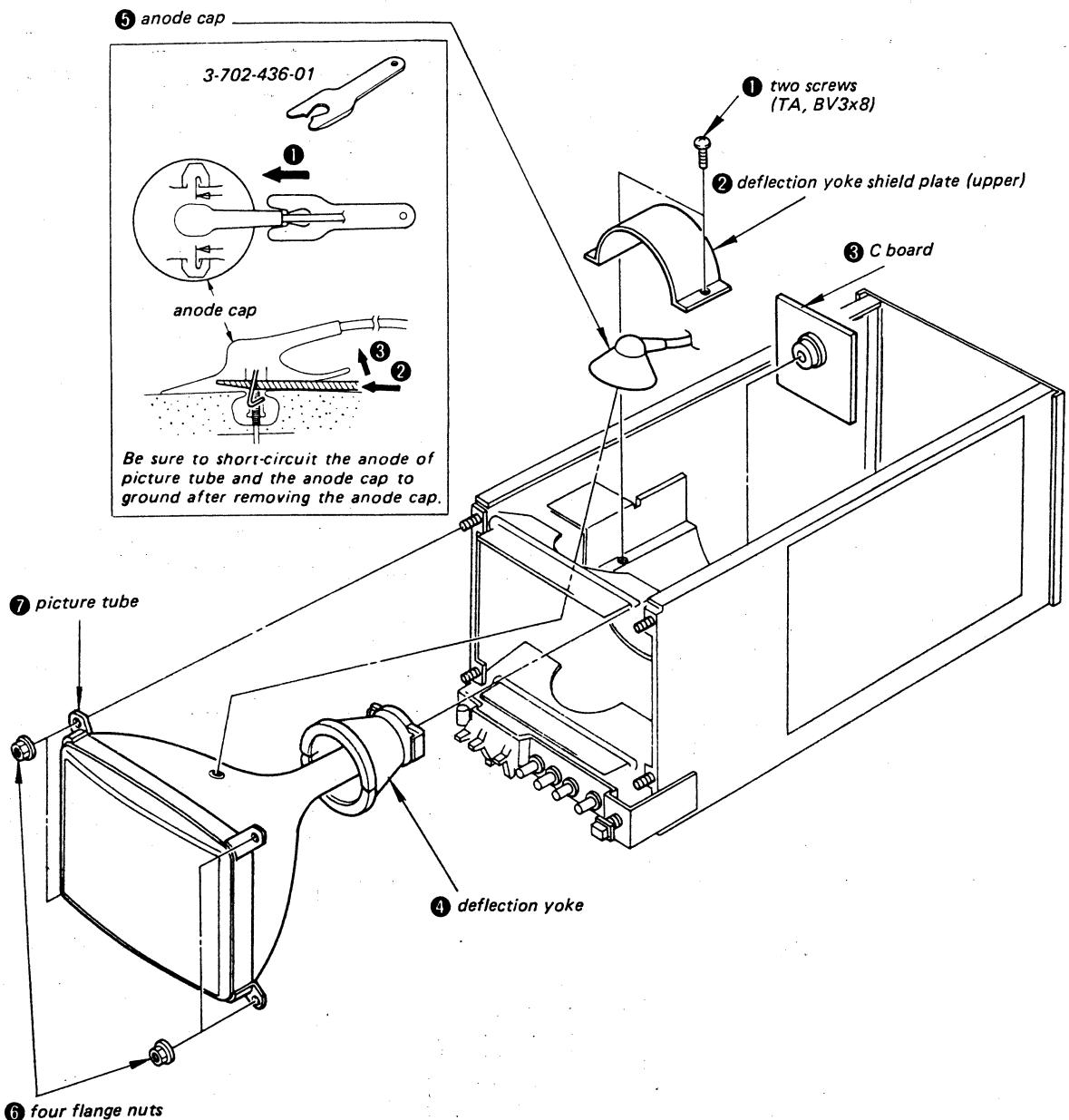
### 2-1. PICTURE TUBE REMOVAL

SCC-247B-A

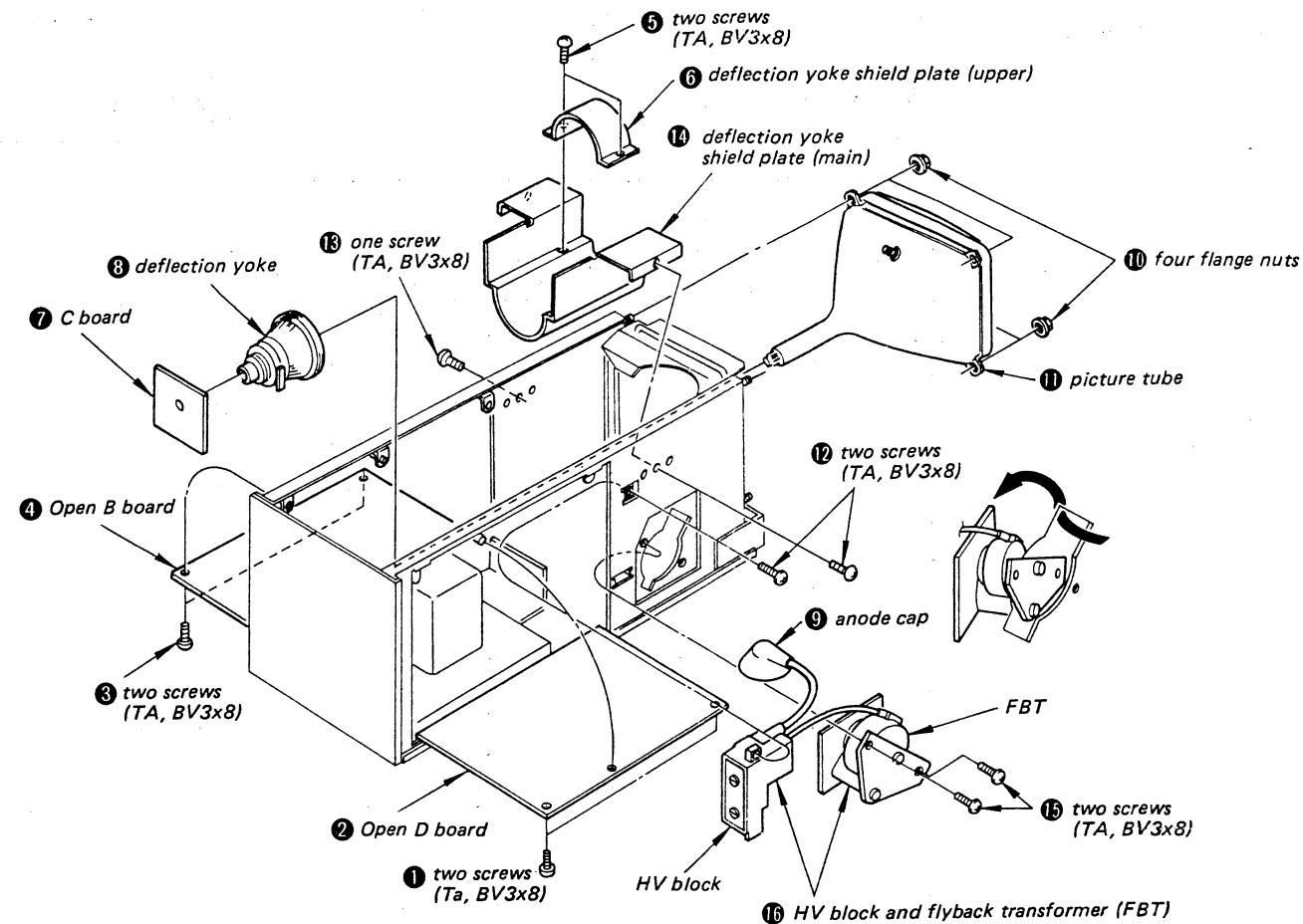


## SECTION 2 DISASSEMBLY

### 2-1. PICTURE TUBE REMOVAL

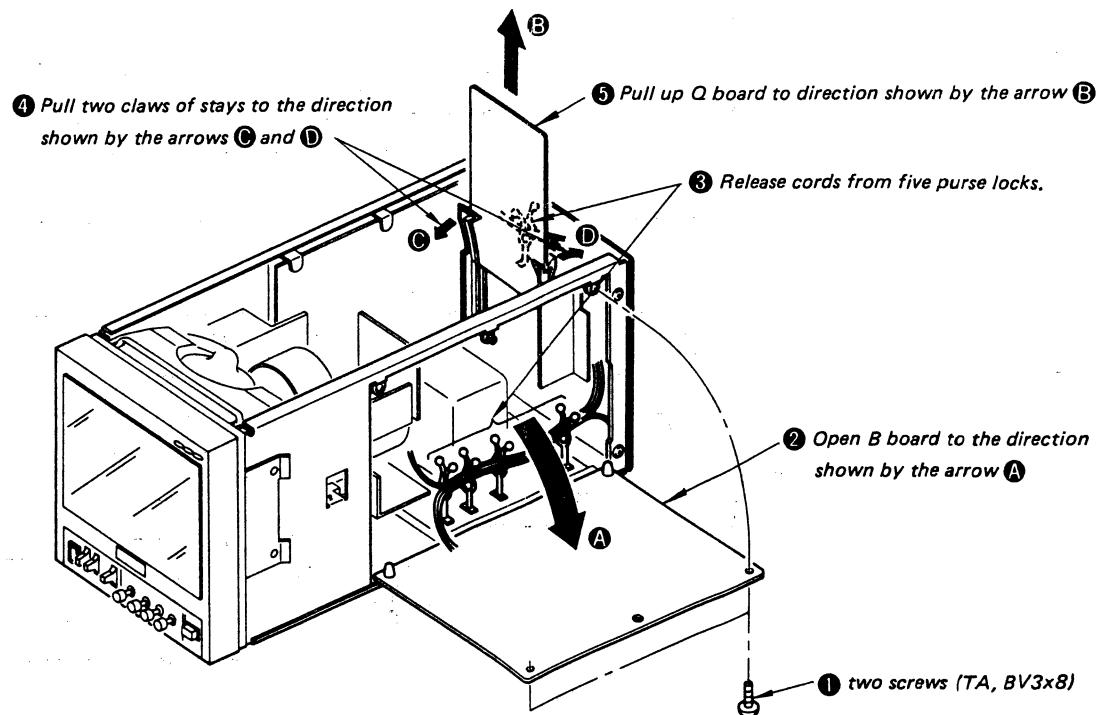


### 2-2. HV BLOCK AND FLYBACK TRANSFORMER REMOVAL



### 2-3. CHECKING Q BOARD UP

Position the set as shown below.



### SECTION 3 SETUP ADJUSTMENTS

SCC-247B-A

## PVM-901OME PVM-901OME

SCC-247B-A

Note: (1) Remove the deflection yoke shield plate for the following adjustments and be sure to install it after adjustments.

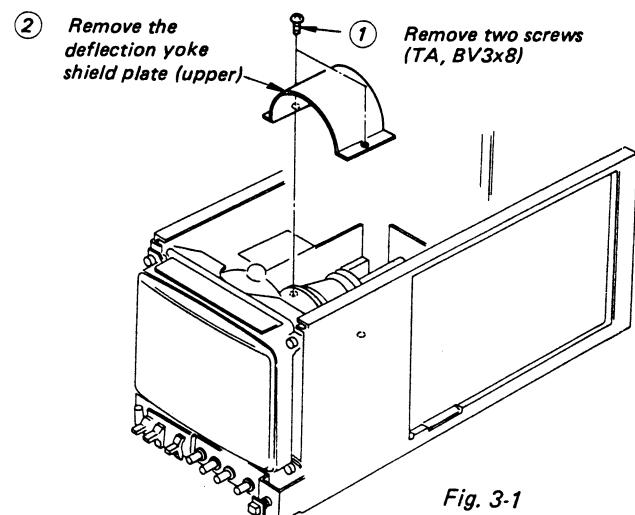


Fig. 3-1

- (2) The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- (3) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows:

CONTRAST control	maximum
BRIGHT control	(fully clockwise)

Make the following adjustments in the order given.

1. Beam Landing
2. Focus
3. Convergence
4. White Balance

Note: Test Equipment Required.

1. Colour-bar/Pattern Generator
2. Degausser
3. Video tuner

#### 3-1. BEAM LANDING

Preparation:

- Feed in the white pattern signal to VIDEO IN/OUT connector through video tuner from colour-bar/pattern generator.

- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Adjust purity magnet tabs as shown in Fig. 3-2.
4. Slide deflection yoke as far forward as it will go.
5. Disconnect resistors R714 and R715 on the C board.
6. Adjust purity magnet tabs to center vertical green band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform green screen.
8. Check red and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.

To get a uniform red screen,

... connect resistor R714 and disconnect resistors R713 and R715 on the C board.

To get a uniform blue screen,

... connect resistor R715 and disconnect resistors R713 and R714 on the C board.

After these checks, connect the resistors R713, R714 and R715.

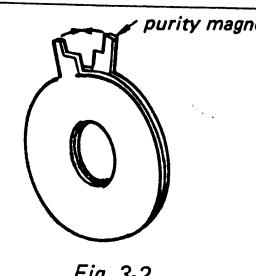


Fig. 3-2

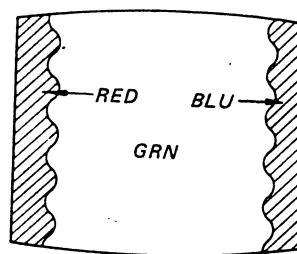
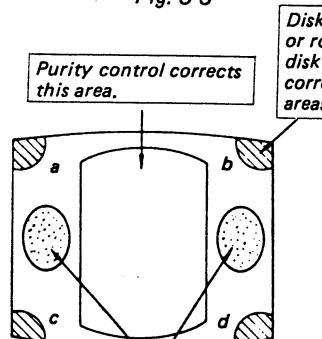


Fig. 3-3



Deflection yoke positioning corrects these areas.

Fig. 3-4

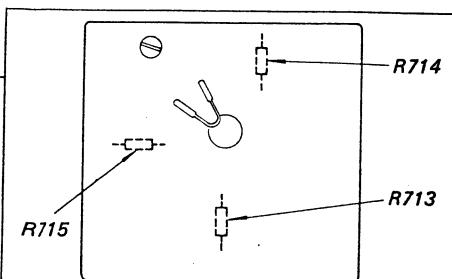


Fig. 3-5

9. Tighten the deflection yoke screw.
10. Install the deflection yoke spacers.

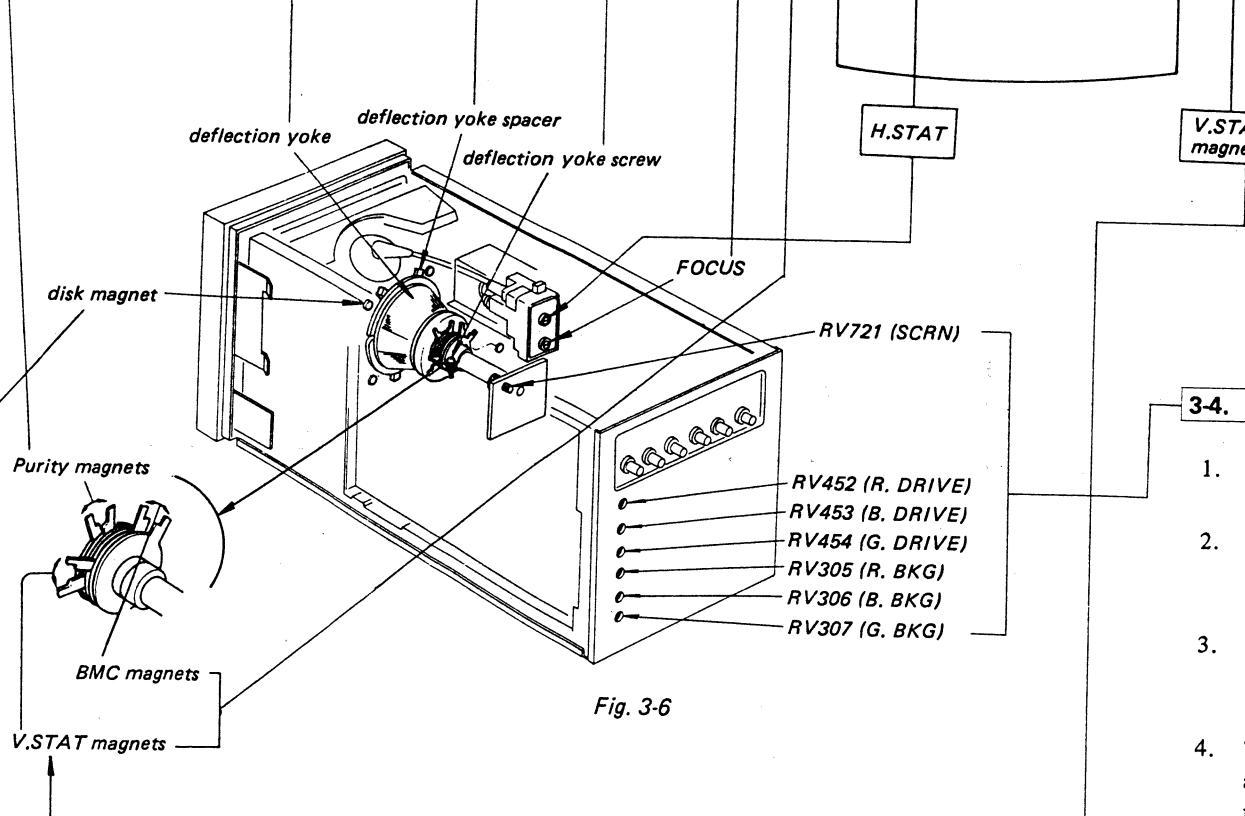


Fig. 3-6

11. Check if mislanding appears at corners a-d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
12. Confirm that beam landing is correct when the receiver is faced in all directions.

#### 3-2. FOCUS

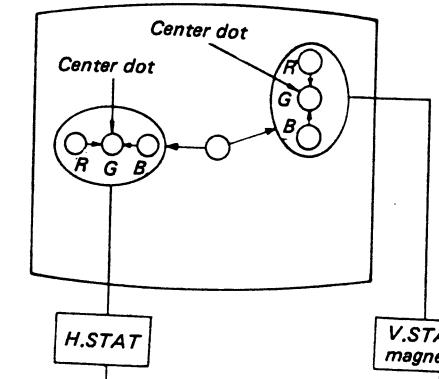
Adjust FOCUS control for best focus.

#### 3-3. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, and V. SIZE adjustments.
- Turn BRIGHT control fully counterclockwise, and set CONTRAST control to mechanical center.
- Feed in the dot pattern.

#### (1) Horizontal and Vertical Static Convergence



If blue dot does not coincide with red and green dots; Rotate BMC magnet tabs to correct insufficient H and V static convergence.  
After rotating the BMC magnet tabs, perform Beam Landing Adjustment.

#### 3-4. WHITE BALANCE

1. Turn COLOUR, BRIGHT and CONTRAST controls fully counterclockwise.
2. Turn R. DRIVE (RV452), G. DRIVE (RV454) and B. DRIVE (RV453) controls fully clockwise.
3. Set R. BKG (RV305), G. BKG (RV307) and B. BKG (RV306) controls to mechanical center.
4. Turn SCRN (RV721) control slowly to obtain a faintly visible cross-hatch. Note the colour that first becomes visible by turning SCRN control. Do not turn a BKG control for this colour.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn BRIGHT and CONTRAST controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

## (2) Dynamic Convergence Adjustment

## Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
  2. Remove deflection yoke spacers.
  3. Move the deflection yoke for best convergence as shown in Fig. 3-7.
  4. Tighten the deflection yoke screw.
  5. Install the deflection yoke spacers.

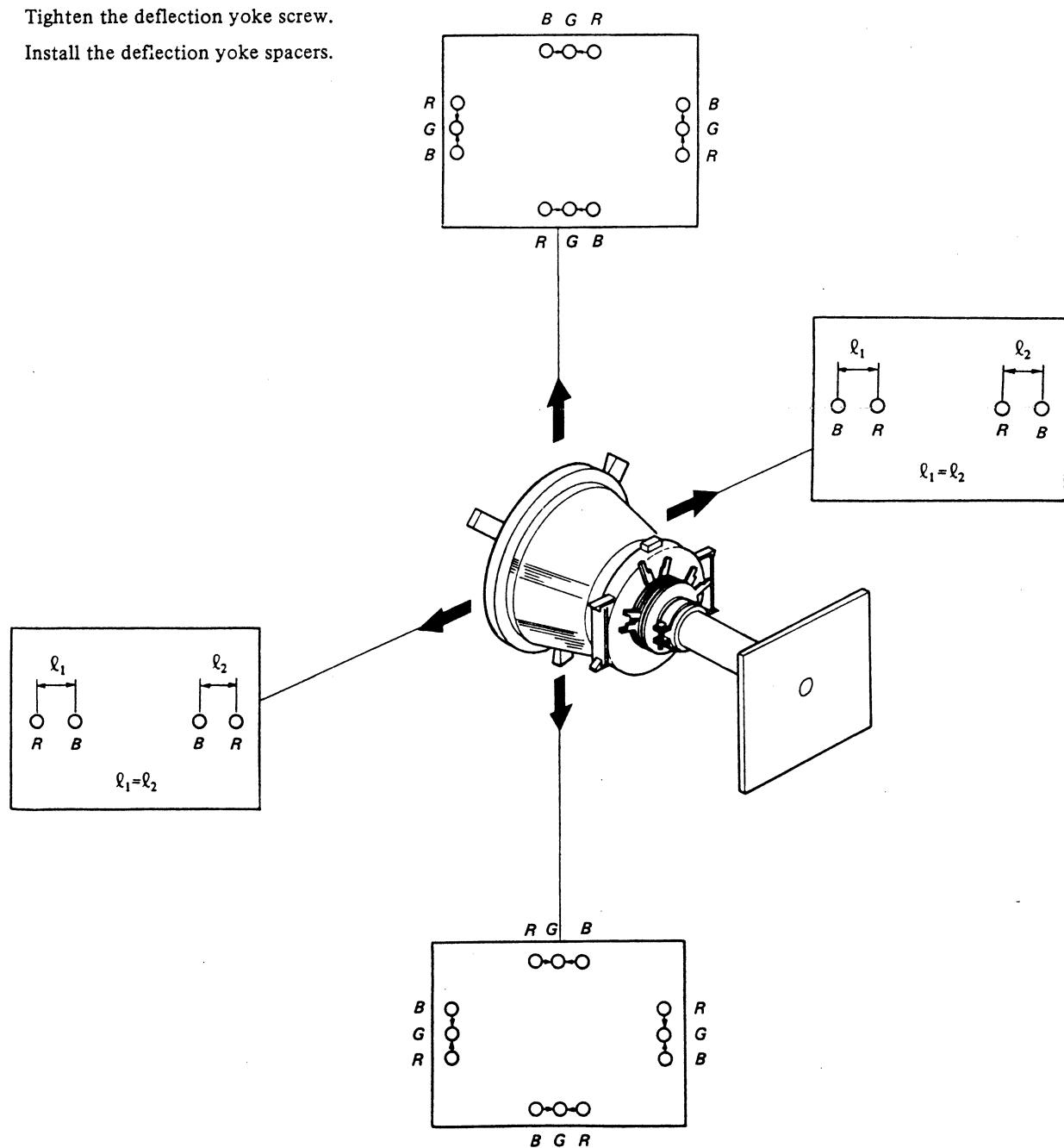


Fig. 3-7

## SECTION 4

### CIRCUIT ADJUSTMENTS

**Note: (1) TEST EQUIPMENT REQUIRED**

1. Oscilloscope
2. Variable autotransformer
3. Digital multimeter
4. Colour-bar/pattern generator
5. PAL Signal generator (TEKTRONIX 141)
6. Video tuner
7. Regulated-dc power supply
8. Isolation transformer
9. Digital multimeter

**(2) INPUT SIGNAL**

When making these adjustments, feed a crosshatch, colour-bar or dots pattern signal to VIDEO IN/OUT connector through video tuner.

**(3) CONTROL AND SWITCH SETTINGS**

Controls and switch should be set as follows when making adjustments unless otherwise noted.

CONTRAST control	}	..... Set for best picture.
BRIGHT control		
COLOUR control		

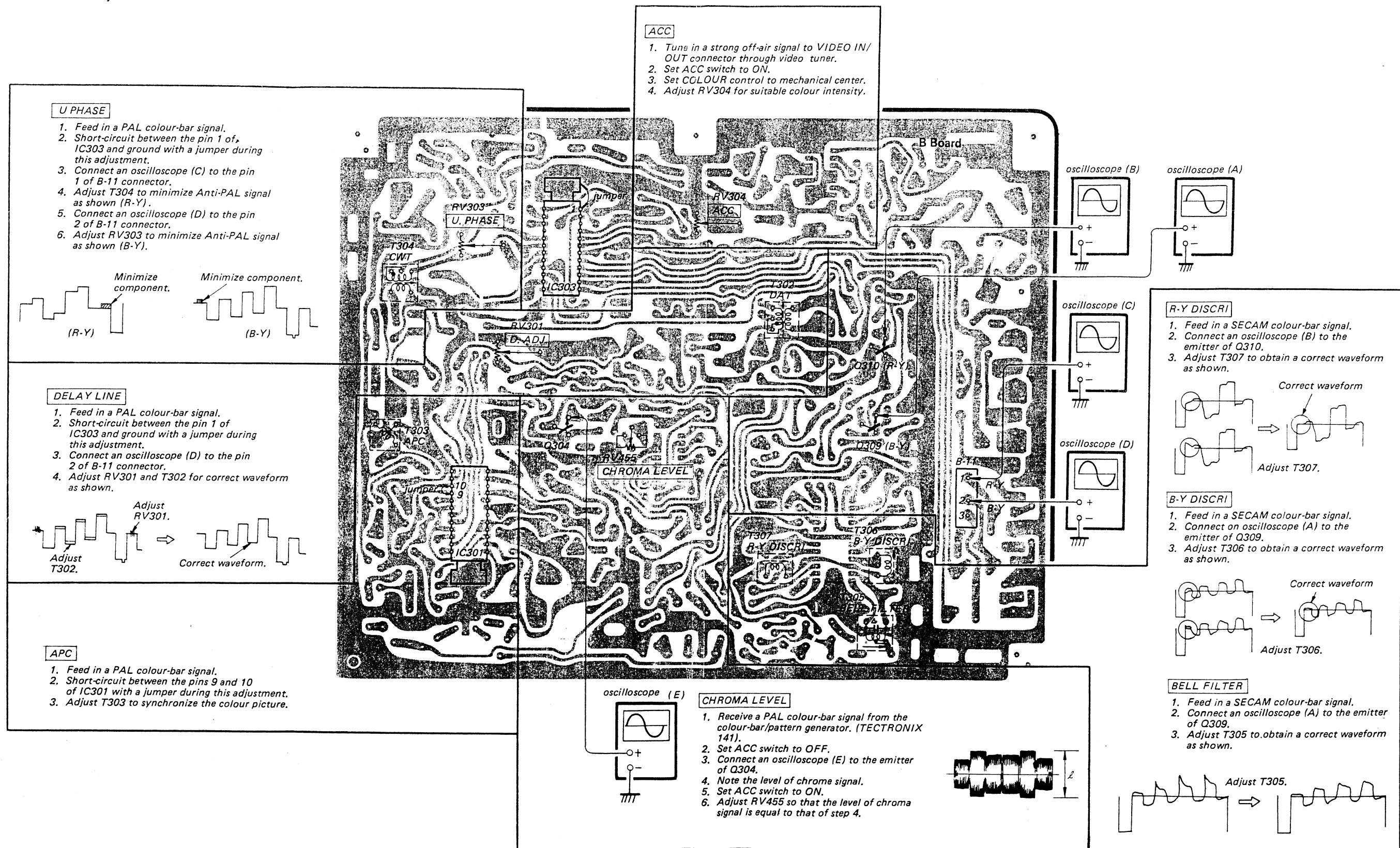
ACC switch ..... ON

- (4)** These adjustments should be performed with the rated power supply voltage unless otherwise noted.

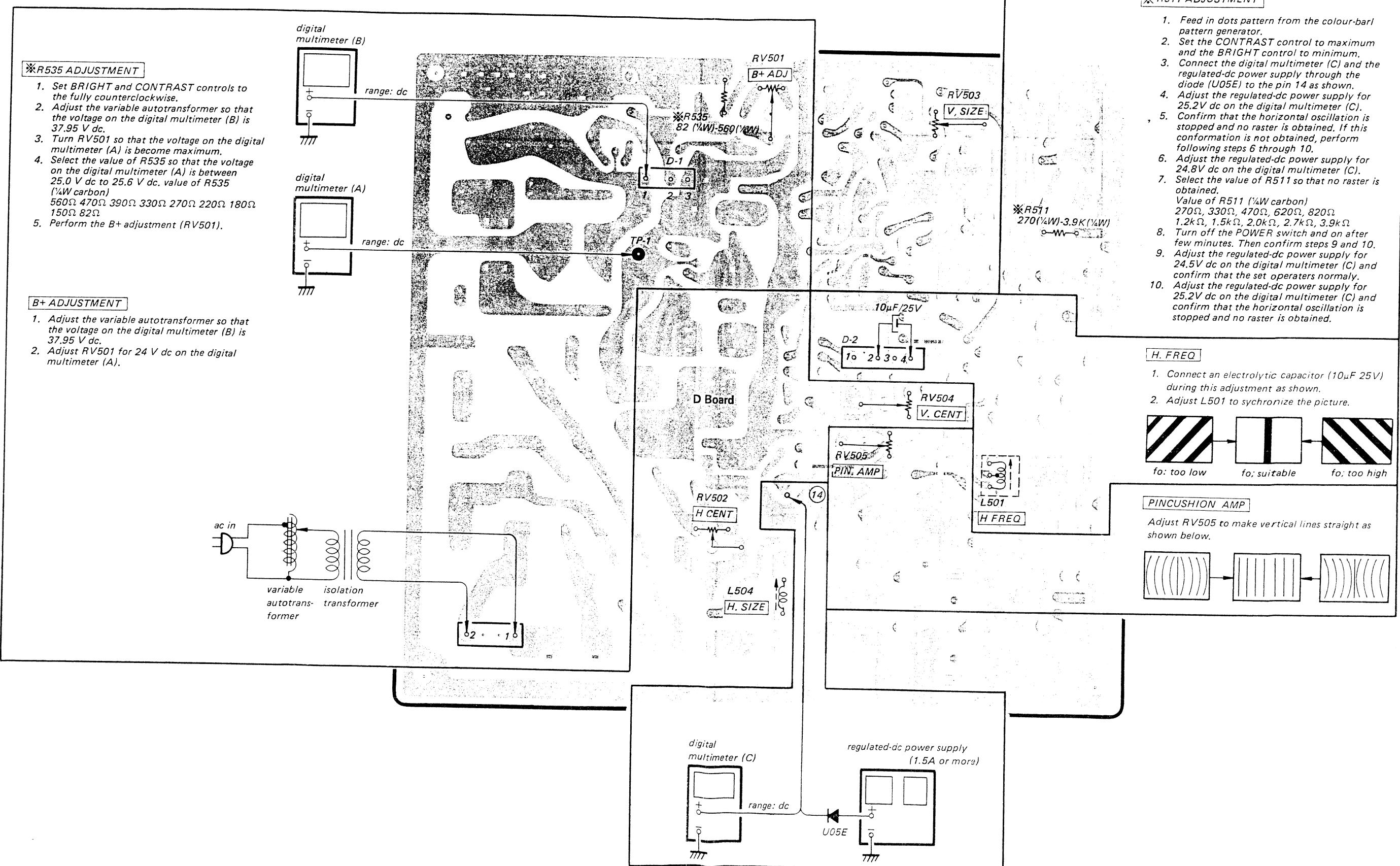
**(5) CIRCUIT ADJUSTMENTS**

Adjustment	Circuit Board	Page
ACC U PHASE DELAY LINE APC CHROMA LEVEL R-Y DISCRI B-Y DISCRI BELL FILTER	B	13, 14
* R535 adjustment B+ adjustment * R511 adjustment H. FREQ PINCUSHION AMP	D	15, 16
4.40 MHz TRAP 4.25 MHz TRAP	Q	17, 18

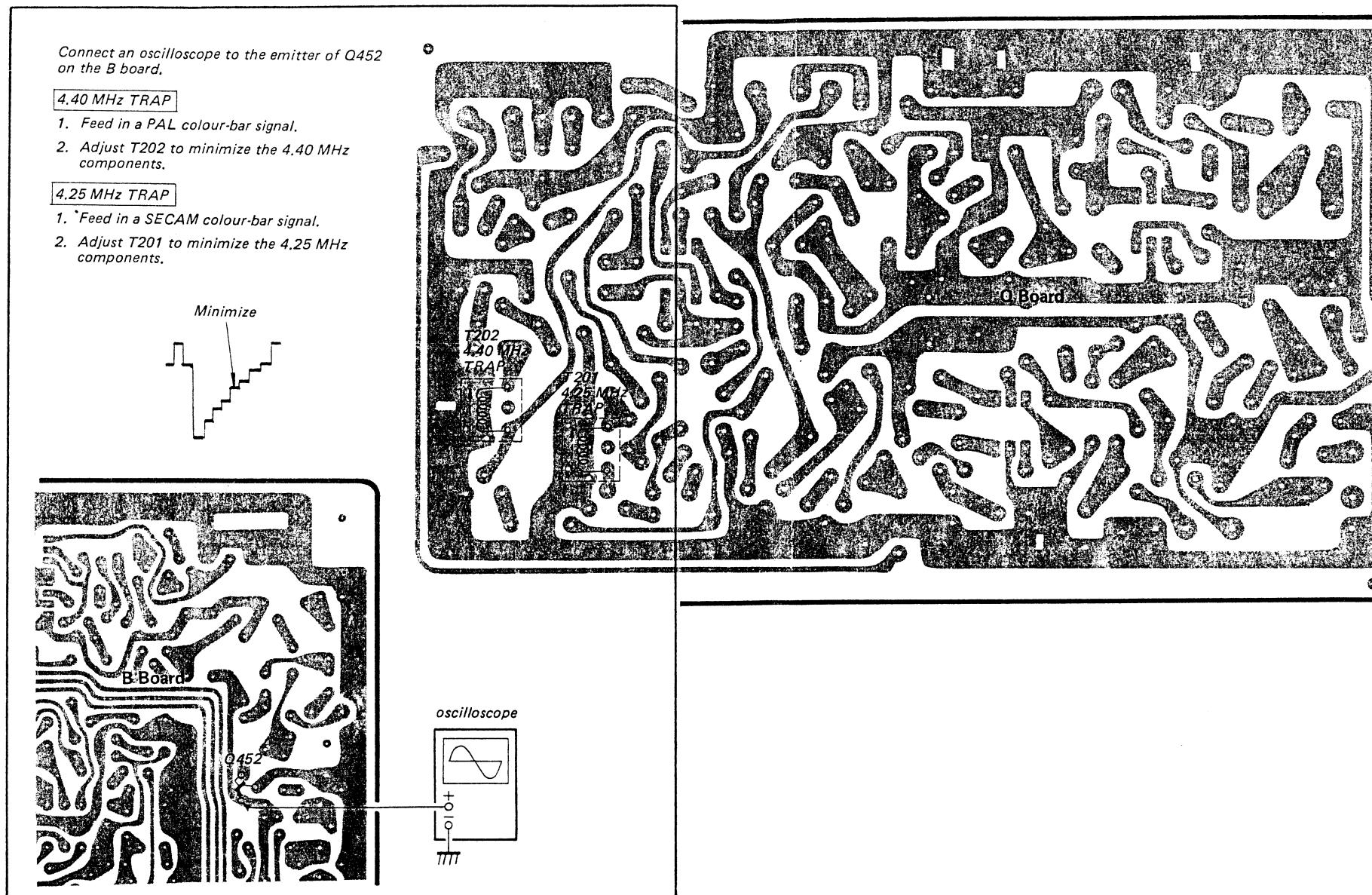
## 4-1. B Board Adjustment



## 4-2. D Board Adjustment



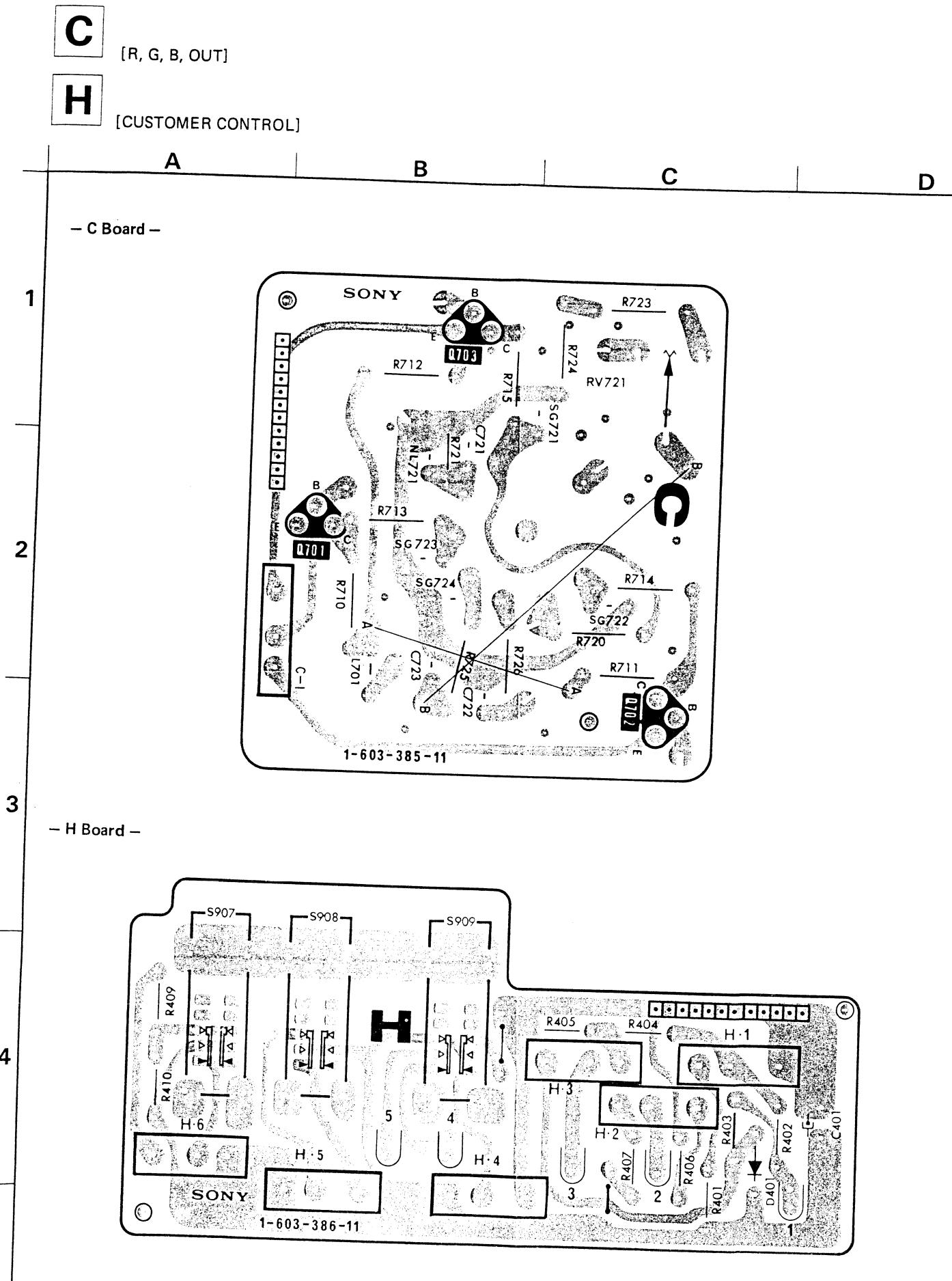
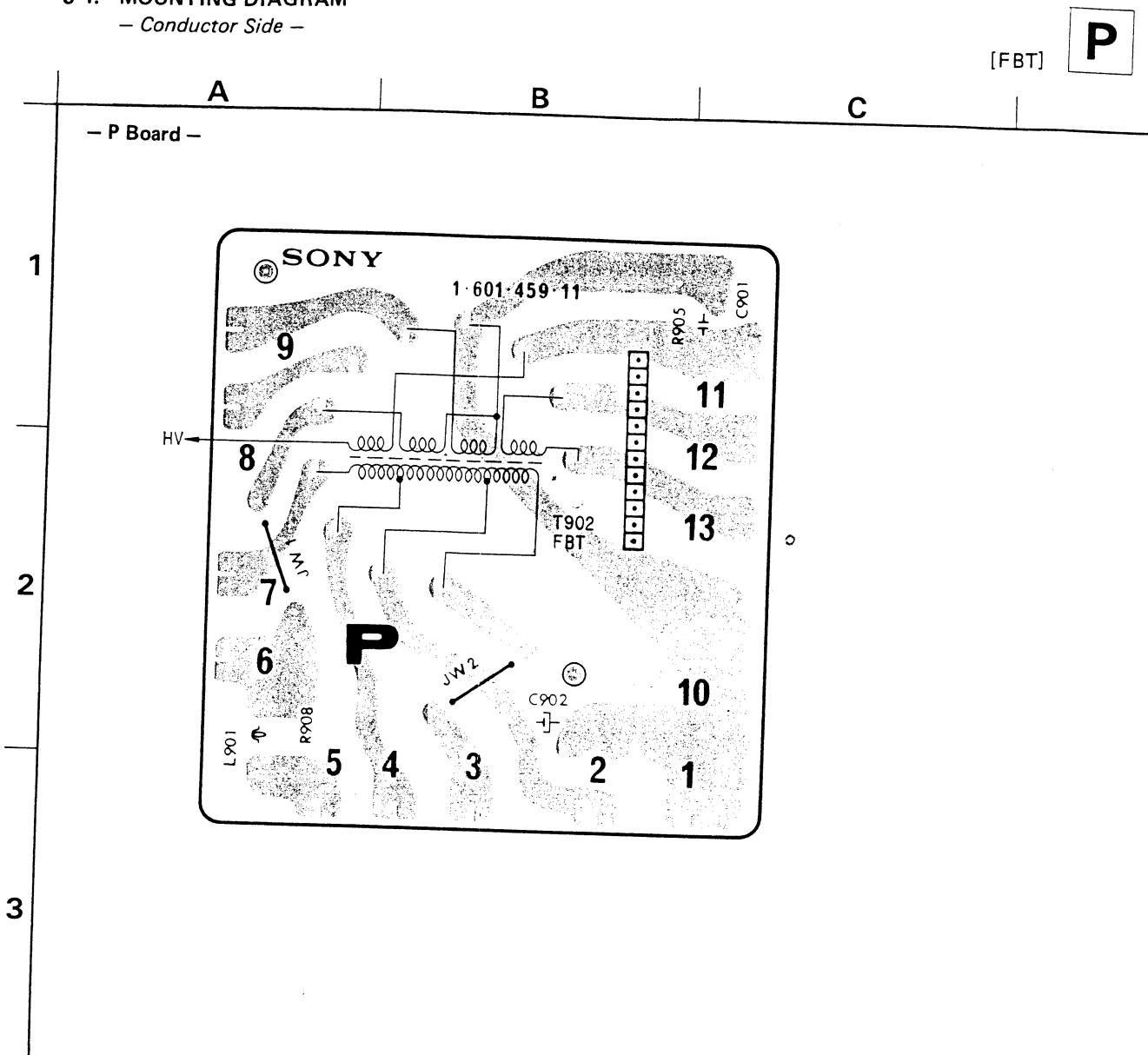
## 4-3. Q Board Adjustment



## SECTION 5 DIAGRAMS

## **5-1. MOUNTING DIAGRAM**

*— Conductor Side —*



[Y AMP, DRIVE, SYNC  
PAL CHROMA SW]

Q

Q

A

B

C

D

E

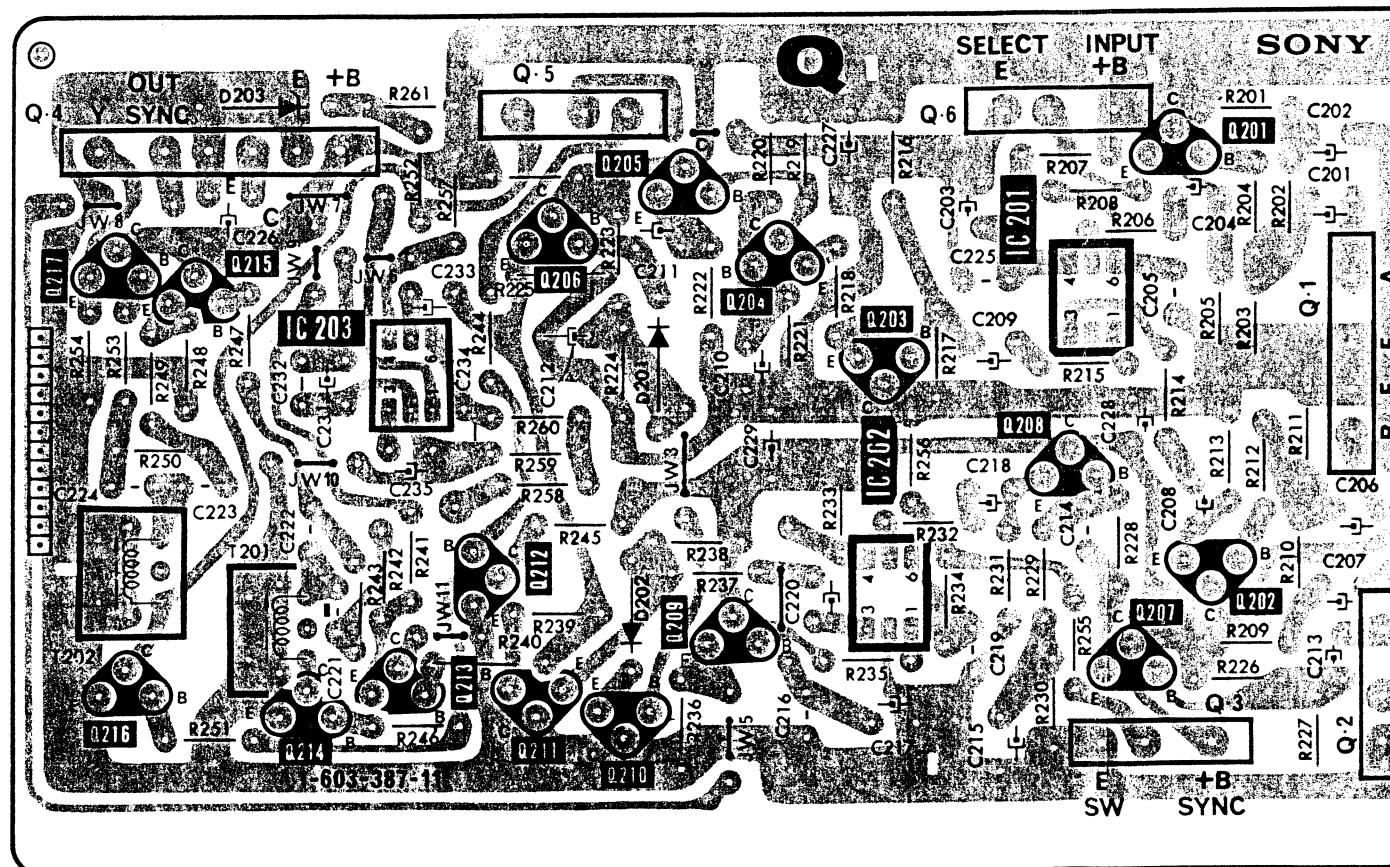
F

— Q Board —

1

Q IC	217 216	215 214	IC203 213	212 211	206 210	205 209	204 203	203 IC202	IC201 208	201 207	202 202	Q IC
D		203			201 202				R201			D
ADJ		T202		T201								ADJ

2

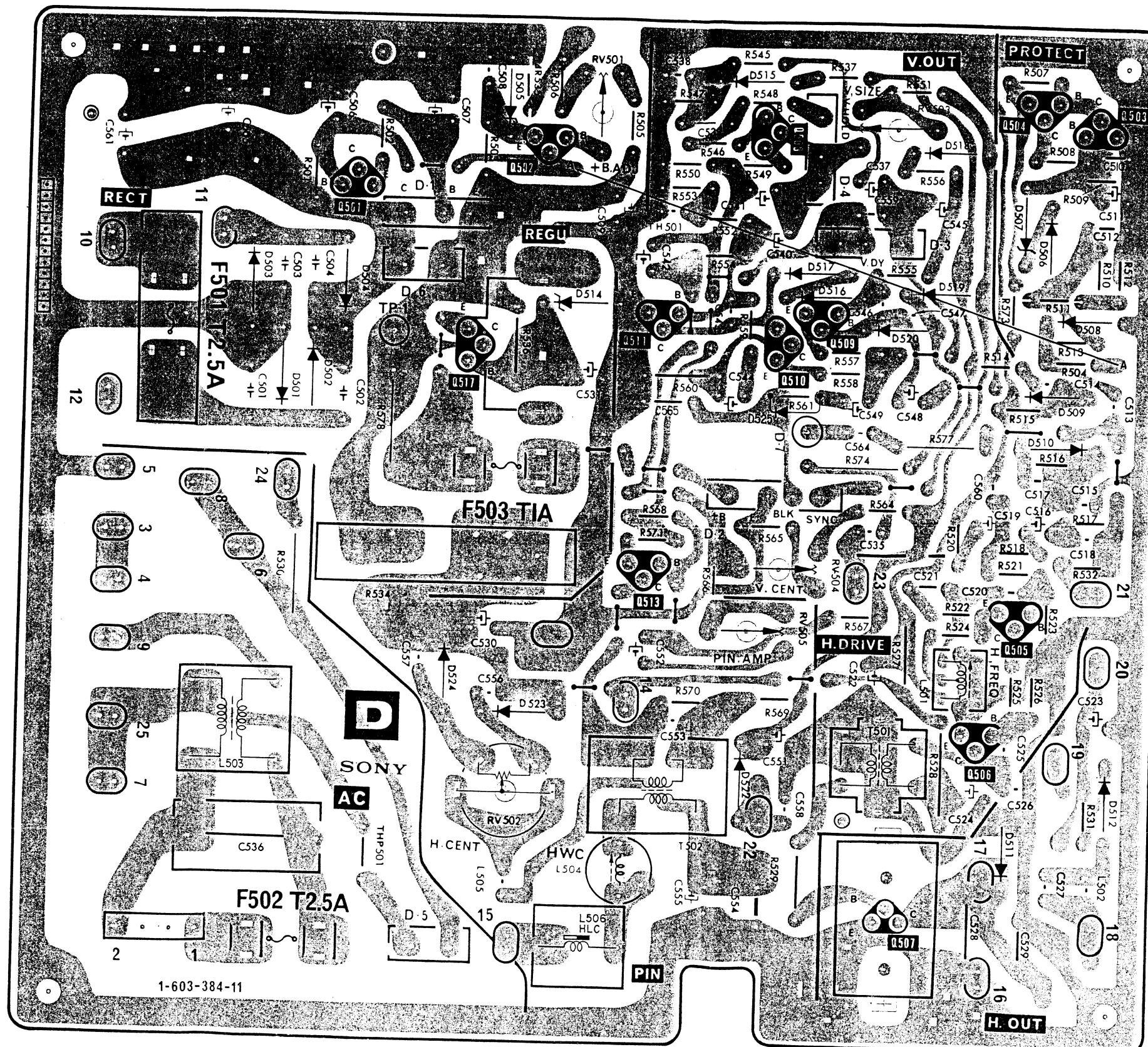


**A****B**

[REG, H, V, DEF, PROTECT]

**C****D****D****E****F****G**

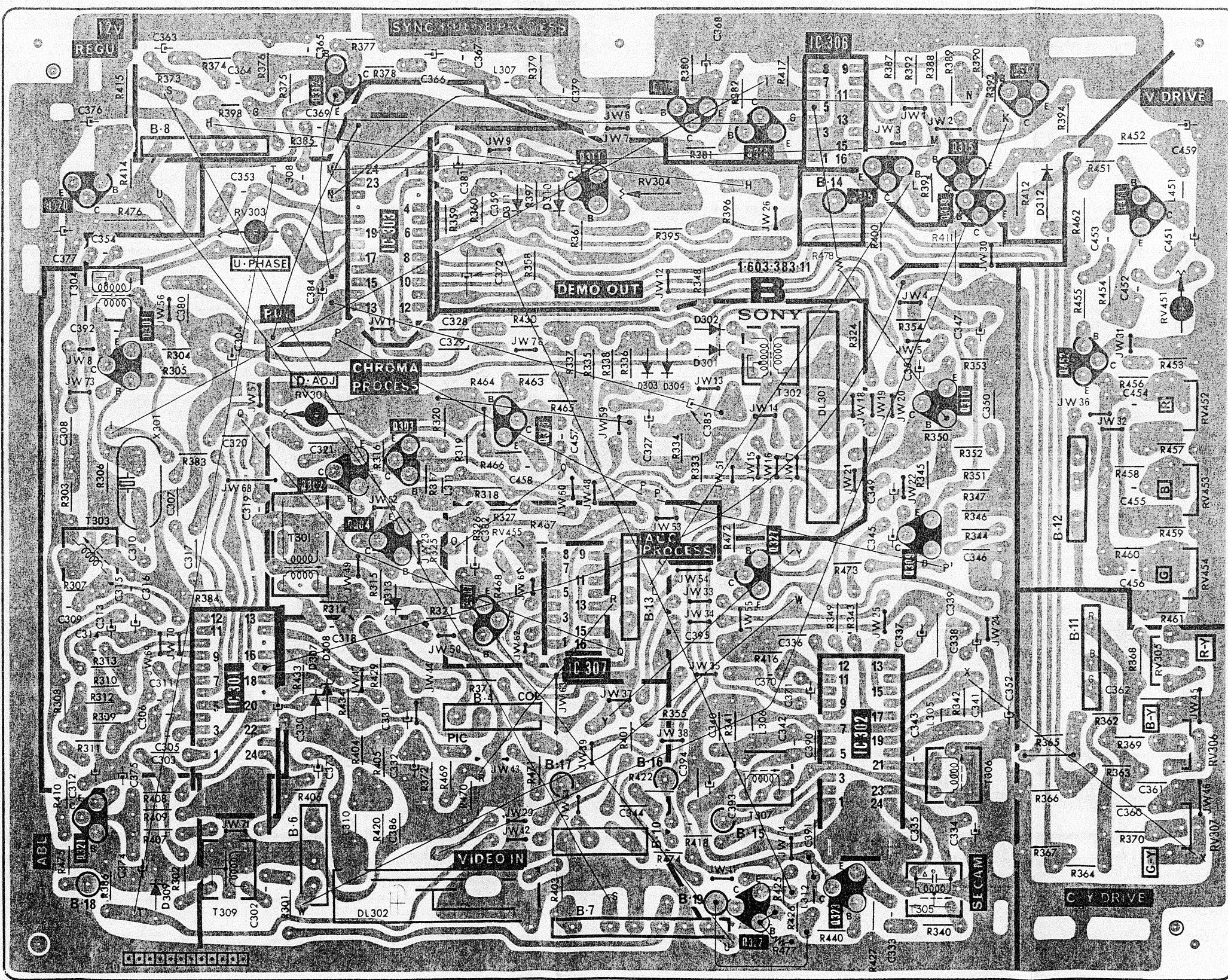
- D Board -



Q, IC	D	ADJ
504	515	R535
503	505	RV501
508	518	RV503
502		
501	507	R511
	506	
	517	
	503	
	504	
	514, 519	
	516, 508	
	520	
509	511	
511	510	
517	510	
	501	
	502	
	509	
	525	
510		
513		RV504
505		RV505
		L501
524		
523		
506		
522		RV502
512		
511		L504
507		

- B Board -

Q , IC	D	ADJ
312		
317		
313		
314		
IC306		
316,315	312	
320 311	311,310	RV304
319,451		
IC303		RV303
		T304
		RV451
	302	
	301	T302
301 452	303,304	
310		RV452
326		RV301
303		
302		RV453
304	309	
	327	T303
		RV454
IC307	313	
307		
IC301	308	RV305
	307	
IC302		RV306
		T306
		T307
321		RV307
323	309	
322		T305

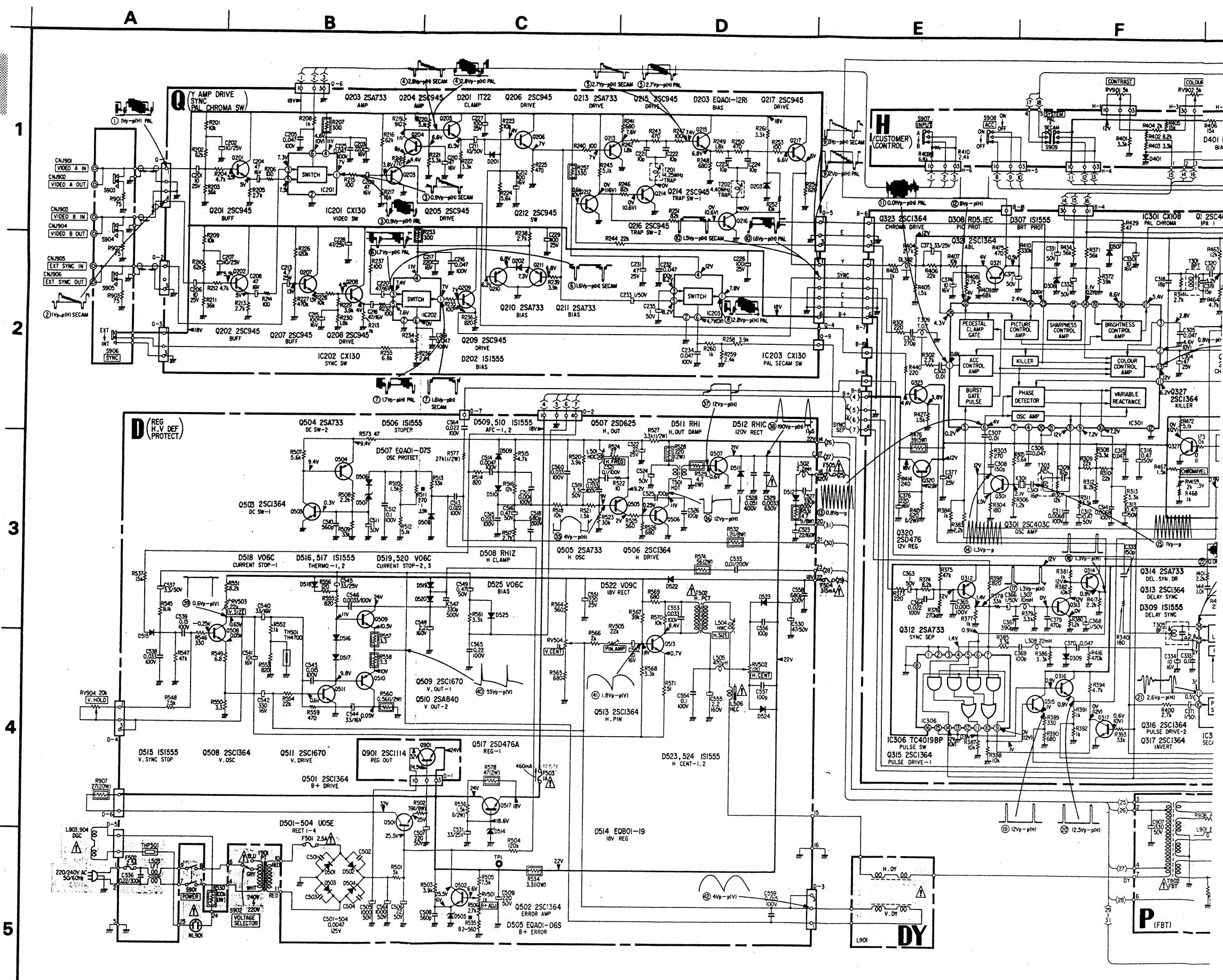


## 5-2. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

## Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF} : \mu\text{F}$   
50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{4}\text{W}$  unless otherwise noted.  
 $\text{k}\Omega : 1000\Omega$ ;  $\text{M}\Omega : 1000\text{k}\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- : panel designation.
- : internal component.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- : adjustment for repair.
- : adjustable without removing cabinet.
- \* : selected to yield optimum performance.
- Voltages and waveforms are taken when PAL colour-bar signal is input VIDEO A IN or SECAM colour-bar signal is input VIDEO B IN and when INPUT switch is chosen A or B.
- In voltage  
—V; These voltages are with A (Reading are taken with a PAL colour-bar signal input) or common.  
(—V); These voltages are with B (Reading are taken with a SECAM colour-bar signal input).
- Waveforms not to indicate PAL or SECAM are common.

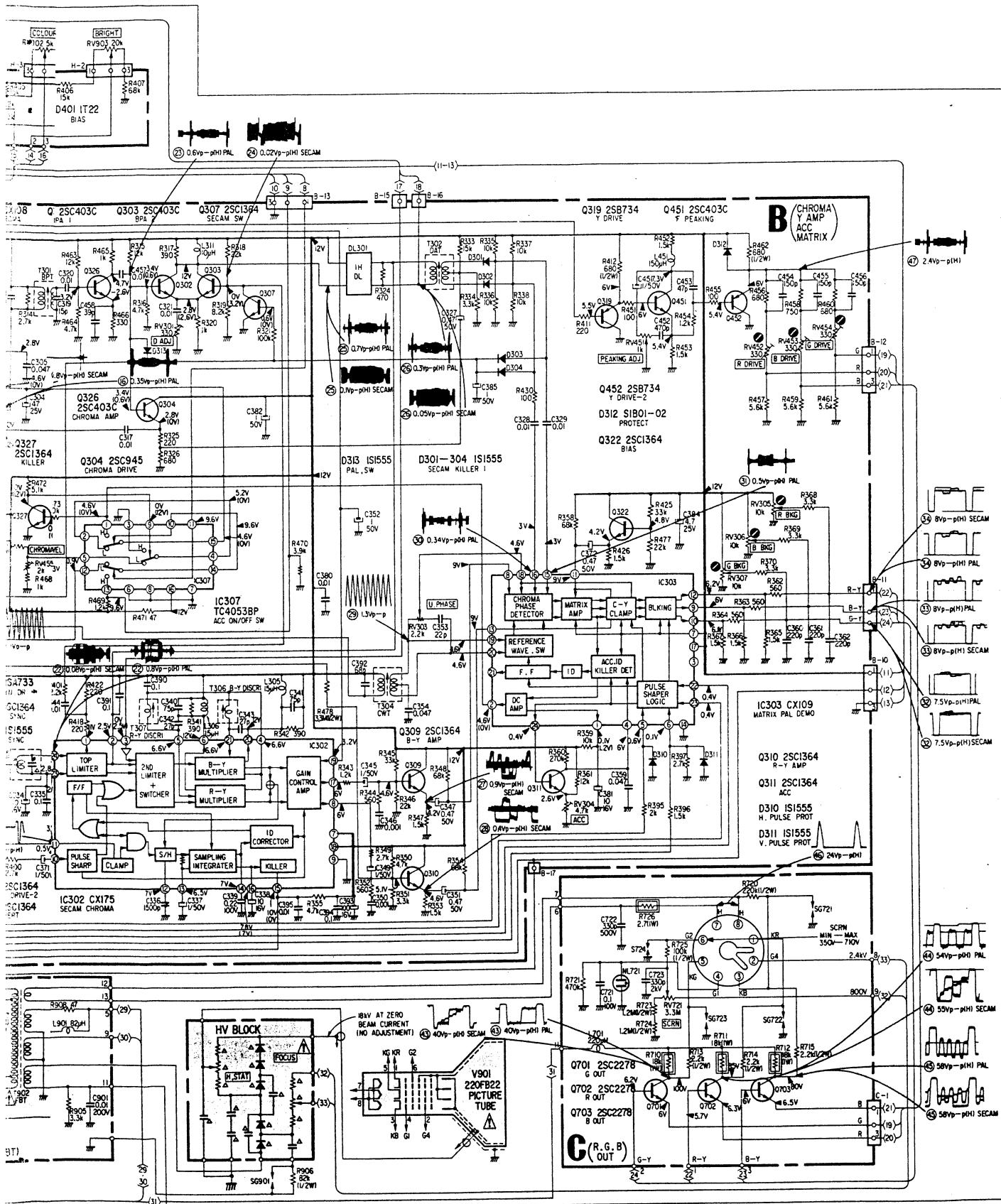


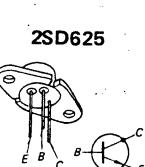
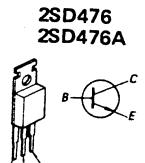
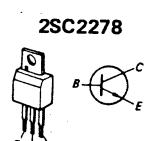
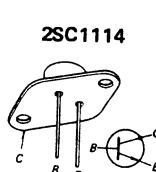
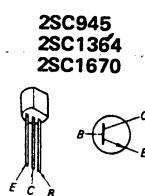
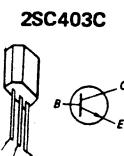
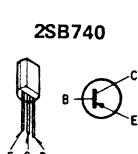
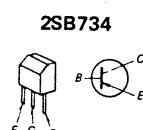
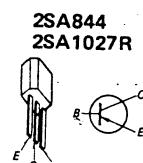
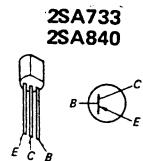
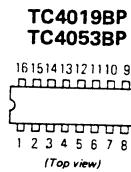
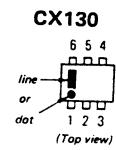
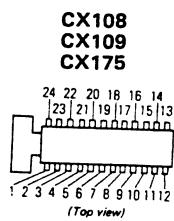
G

4

1

J



**Semiconductors**

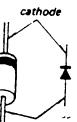
**1S1555  
1T22  
1T22AM  
10E2  
RD5.1EC**



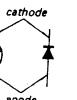
**EQA01-06S  
EQA01-07S  
EQA01-12R1  
EQB01-06  
EQB01-07  
EQB01-19  
EQB01-19Z  
EQB01-12Z  
SIB01-02**



**RH1  
RH1A  
RH1C  
RH1Z**

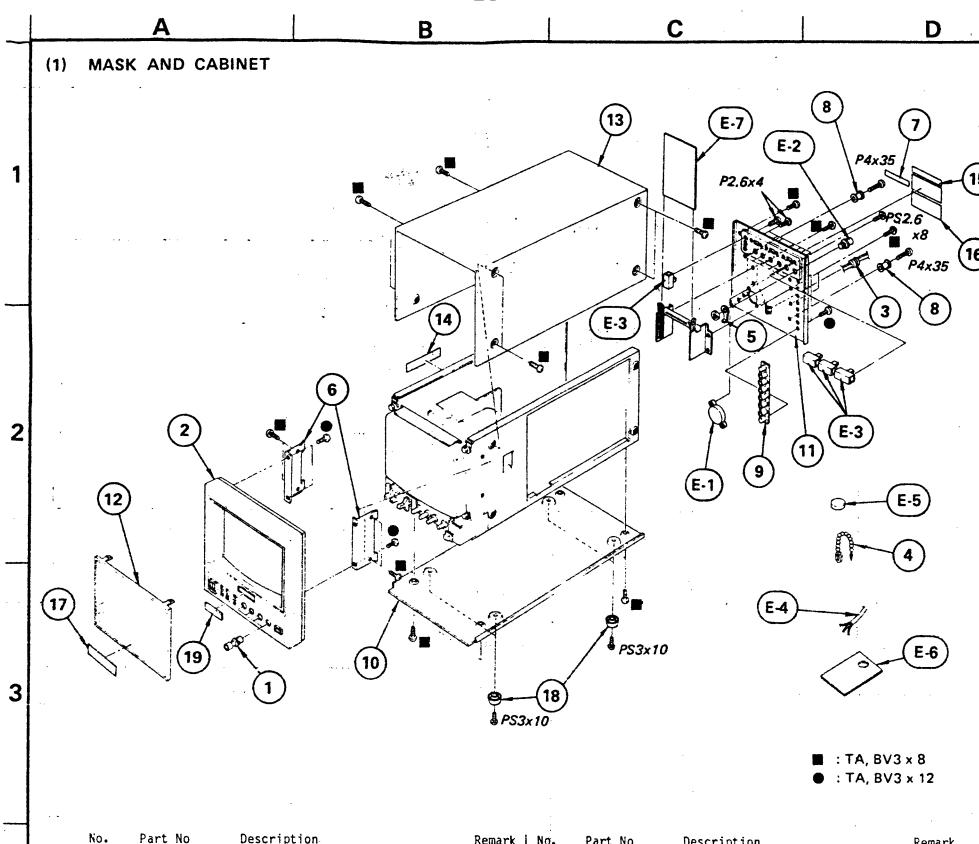


**U05E  
U05G  
V06C  
V09C  
V09G**



## **SECTION 6**

### **EXPLODED VIEWS**



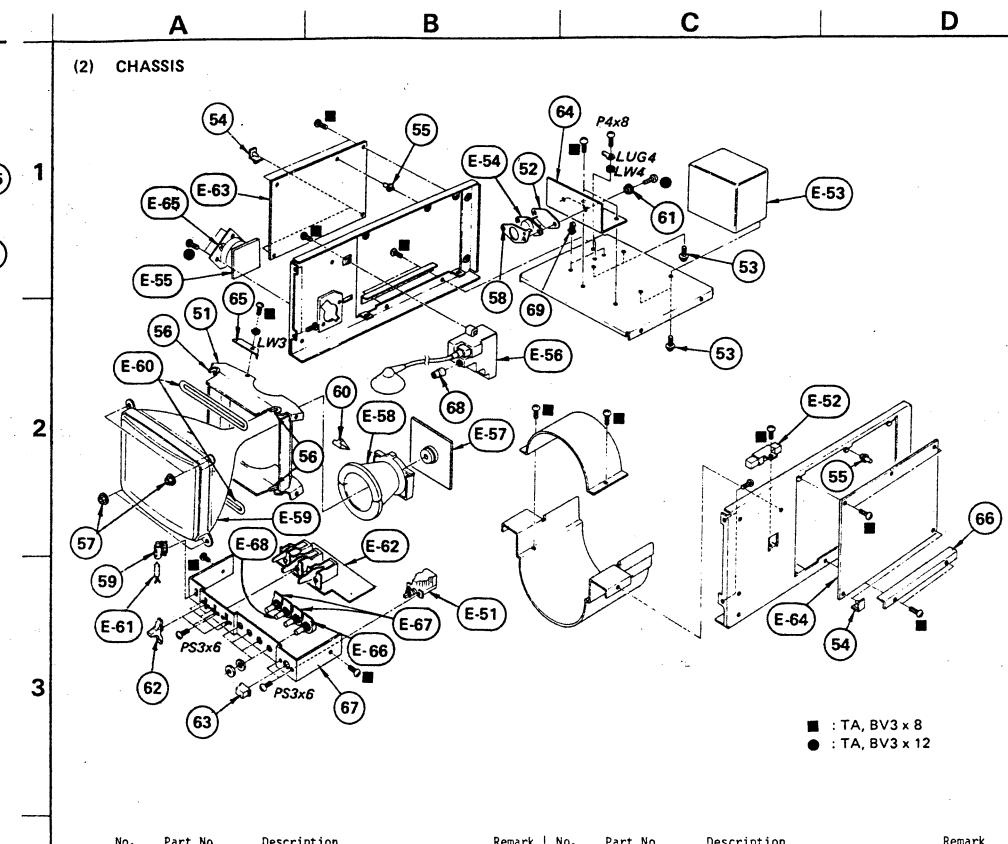
No.	Part No	Description	Remark	No.	Part No	Description	Remark
1	X-4316-209-0	KNOB ASSY, CONTROL		11	4-340-254-00	COVER, BACK	
2	X-4340-203-0	BEZEL ASSY		12	4-340-221-00	FILTER	
3	▲-2-045-063-00	STOPPER, CORD		13	4-340-226-00	COVER (UPPER)	
4	4-308-870-00	CLIP, LEAD WIRE		14	3-703-058-00	LABEL, PTB EXEMPTION	
5	4-325-529-00	TERMINAL, CONNECTOR		15	3-703-057-00	LABEL, PTB EXEMPTION	
6	▲-4-340-202-00	BRACKET, BEZEL		16	3-701-690-00	LABEL, MODEL NUMBER (LARGE)	
7	4-310-380-00	LABEL, DEMKO		17	3-701-690-00	LABEL	
8	4-340-206-00	WINDING, CORD		18	X-4861-312-0	FOOT ASSY, MF	
9	▲-4-340-214-00	INSULATOR, CONTROL		19	4-836-926-11	EMBLEM, SONY	
10	▲-4-340-219-00	COVER (LOWER)					

**NOTE:**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
  - Items marked "█" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety. Replace only with part number specified.



No.	Part No	Description	Remark	No.	Part No	Description	Remark
51	X-4325-007-0	CRT SHIELD ASSY		61	4-313-734-00	BUSHING TR.Y	
52	3-701-353-00	SPACER, MICA		62	4-335-954-02	KNOB (2P), LEVER SWITCH	
53	3-701-810-21	SCREW, TERMINAL		63	4-335-952-00	PUSH BUTTON	
54	3-701-832-00	HINGE, CIRCUIT BOARD		64	4-340-249-00	HEAT SINK, REG	
55	4-303-473-00	SUPPORT, PC		65	4-340-209-00	INSULATOR (A)	
56	4-304-483-00	WASH., DEGAUSSING COIL		66	4-340-210-00	INSULATOR (B)	
57	4-304-484-00	WASH., PLATE		67	4-340-253-00	BRACKET, CONTROL	
58	4-304-456-00	HOLDER, (TO-3)		68	4-309-360-00	CAP, RUBBER	
59	4-308-211-00	HOLDER, NEON LAMP		69	4-326-512-00	HOLDER, ROD	
60	4-309-269-00	SPACER, DEFLECTION Yoke					

**NOTE:**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- As to the part numbered with E-, refer to the electrical parts list.
  - Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

B

**SECTION 7**  
**ELECTRICAL PARTS LIST**

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark
		<b>A-A-1135-107-A</b> <u>B BOARD, COMPLETE</u>		E-64	C340	1-161-345-00 CERAMIC	75PF 5% 50V
		<u>CONNECTOR</u>			C341	1-161-345-00 CERAMIC	75PF 5% 50V
B4	▲:1-508-765-00	3P PLUG (M)			C342	1-102-883-00 CERAMIC	27PF 5% 50V
B6	▲:1-508-765-00	3P PLUG (M)			C343	1-102-883-00 CERAMIC	27PF 5% 50V
B7	▲:1-508-768-00	6P PLUG			C344	1-161-379-00 CERAMIC	0.01MF 20% 25V
B8	▲:1-508-766-00	4P PLUG (M)			C345	1-123-352-00 ELECT	1MF 20% 50V
B10	▲:1-508-765-00	3P PLUG (M)			C346	1-161-323-00 CERAMIC	0.001MF 10% 50V
B11	▲:1-508-765-00	3P PLUG (M)			C347	1-123-351-00 ELECT	0.47MF 20% 50V
B12	▲:1-508-765-00	3P PLUG (M)			C349	1-123-352-00 ELECT	1MF 20% 50V
B13	▲:1-508-765-00	3P PLUG (M)			C350	1-161-323-00 CERAMIC	0.001MF 10% 50V
B14	▲:1-508-784-00	1P PLUG			C351	1-123-351-00 ELECT	0.47MF 20% 50V
B15	▲:1-508-784-00	1P PLUG			C352	1-123-352-00 ELECT	1MF 20% 50V
B16	▲:1-508-784-00	1P PLUG			C353	1-102-892-00 CERAMIC	22PF 5% 50V
B17	▲:1-508-784-00	1P PLUG			C354	1-101-006-00 CERAMIC	0.047MF 50V
B18	▲:1-508-784-00	1P PLUG			C359	1-101-006-00 CERAMIC	0.047MF 50V
B19	▲:1-508-784-00	1P PLUG			C360	1-161-315-00 CERAMIC	220PF 10% 50V
					C361	1-161-315-00 CERAMIC	220PF 10% 50V
					C362	1-161-315-00 CERAMIC	220PF 10% 50V
					C363	1-123-352-00 ELECT	1MF 20% 50V
					C364	1-108-630-11 MYLAR	0.022MF 10% 100V
		<u>CAPACITOR</u>					
C302	1-102-980-00	CERAMIC	270PF 5% 50V		C365	1-108-616-11 MYLAR	0.0015MF 10% 100V
C303	1-161-379-00	CERAMIC	0.01MF 20% 25V		C366	1-123-352-00 ELECT	1MF 20% 50V
C304	1-123-332-00	ELECT	47MF 20% 25V		C367	1-161-318-00 CERAMIC	390PF 10% 50V
C305	1-101-006-00	CERAMIC	0.047MF 50V		C368	1-123-352-00 ELECT	1MF 20% 50V
C306	1-101-006-00	CERAMIC	0.047MF 50V		C369	1-161-271-00 CERAMIC	100PF 5% 50V
C307	1-161-379-00	CERAMIC	0.01MF 20% 25V		C370	1-101-006-00 CERAMIC	0.047MF 50V
C308	1-161-313-00	CERAMIC	150PF 10% 50V		C371	1-123-352-00 ELECT	1MF 20% 50V
C309	1-102-700-00	CERAMIC	82PF 5% 50V		C372	1-123-351-11 ELECT	0.47MF 20% 50V
C310	1-102-512-00	CERAMIC	16PF 5% 50V		C373	1-123-331-00 ELECT	33MF 20% 25V
C311	1-108-624-00	MYLAR	0.0068MF 10% 100V		C374	1-123-316-00 ELECT	10MF 20% 16V
C312	1-123-351-00	ELECT	0.47MF 20% 50V		C375	1-123-352-00 ELECT	1MF 20% 50V
C313	1-123-351-00	ELECT	0.47MF 20% 50V		C376	1-123-321-00 ELECT	220MF 20% 16V
C314	1-108-624-00	MYLAR	0.0068MF 10% 100V		C377	1-123-332-00 ELECT	47MF 20% 25V
C315	1-101-006-00	CERAMIC	0.047MF 50V		C378	1-161-319-00 CERAMIC	470PF 10% 50V
C316	1-123-351-00	ELECT	0.47MF 20% 50V		C380	1-161-379-00 CERAMIC	0.01MF 20% 25V
C317	1-161-379-00	CERAMIC	0.01MF 20% 25V		C381	1-123-316-00 ELECT	10MF 20% 16V
C318	1-102-670-00	CERAMIC	18PF 5% 50V		C382	1-123-352-00 ELECT	1MF 20% 50V
C319	1-102-668-00	CERAMIC	15PF 5% 50V		C384	1-123-328-00 ELECT	4.7MF 20% 25V
C320	1-161-379-00	CERAMIC	0.01MF 20% 25V		C385	1-123-352-11 ELECT	1MF 20% 50V
C321	1-161-379-00	CERAMIC	0.01MF 20% 25V		C390	1-161-025-00 CERAMIC	0.1MF 10% 25V
C327	1-123-351-00	ELECT	0.47MF 20% 50V		C391	1-161-025-00 CERAMIC	0.1MF 10% 25V
C328	1-161-379-00	CERAMIC	0.01MF 20% 25V		C392	1-102-676-00 CERAMIC	68PF 5% 50V
C329	1-161-379-00	CERAMIC	0.01MF 20% 25V		C393	1-123-320-00 ELECT	100MF 20% 16V
C330	1-123-316-00	ELECT	10MF 20% 16V		C394	1-161-025-00 CERAMIC	0.1MF 10% 25V
C331	1-123-352-00	ELECT	1MF 20% 50V		C395	1-161-379-00 CERAMIC	0.01MF 20% 25V
C332	1-123-352-00	ELECT	1MF 20% 50V		C451	1-123-352-00 ELECT	1MF 20% 50V
C333	1-102-888-00	CERAMIC	150PF 5% 50V		C452	1-161-319-00 CERAMIC	470PF 10% 50V
C334	1-123-316-00	ELECT	10MF 20% 16V		C453	1-101-880-00 CERAMIC	47PF 5% 50V
C335	1-161-025-51	CERAMIC	0.1MF 10% 25V		C454	1-101-361-00 CERAMIC	150PF 5% 50V
C336	1-161-325-51	CERAMIC	0.0015MF 30% 50V		C455	1-101-361-00 CERAMIC	150PF 5% 50V
C337	1-123-352-00	ELECT	1MF 20% 50V		C456	1-101-361-00 CERAMIC	150PF 5% 50V
C338	1-123-316-00	ELECT	10MF 20% 16V		C457	1-108-626-11 MYLAR	0.01MF 10% 100V
C339	1-108-642-11	MYLAR	0.22MF 10% 100V				

NOTE:

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

⇒ Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Items marked ▲ are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
MF : μF, PF : μμF

RESISTORS  
All resistors are in ohms  
F : nonflammable

COILS  
MH : mH, UH : μH

B

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
C458	1-102-965-00	CERAMIC	39PF	5%	50V	Q321	8-729-663-47	TRANSISTOR 2SC1364
C459	1-123-352-00	ELECT	1MF	20%	50V	Q322	8-729-663-47	TRANSISTOR 2SC1364
		<u>DIODE</u>				Q323	8-729-663-47	TRANSISTOR 2SC1364
D301	8-719-815-55	DIODE	1S1555			Q326	8-724-375-01	TRANSISTOR 2SC403C
D302	8-719-815-55	DIODE	1S1555			Q327	8-729-663-47	TRANSISTOR 2SC1364
D303	8-719-815-55	DIODE	1S1555					
D304	8-719-815-55	DIODE	1S1555					
D307	8-719-815-55	DIODE	1S1555					
D308	8-719-151-77	DIODE	R05-1EC					
D309	8-719-815-55	DIODE	1S1555					
D310	8-719-815-55	DIODE	1S1555					
D311	8-719-815-55	DIODE	1S1555					
D312	>8-719-200-02	DIODE	10E2					
D313	8-719-815-55	DIODE	1S1555					
		<u>DELAY LINE</u>						
DL301	1-415-122-31	DELAY LINE						
DL302	1-415-100-00	DELAY LINE						
		<u>IC</u>						
IC301	8-751-080-00	IC	CX108					
IC302	8-751-750-00	IC	CX175					
IC303	8-751-090-00	IC	CX109					
IC306	8-759-240-19	IC	TC4019BP					
IC307	8-759-240-53	IC	TC4053BP					
		<u>COIL</u>						
L305	1-407-695-11	MICRO INDUCTOR	15UH					
L306	1-407-695-11	MICRO INDUCTOR	15UH					
L307	1-407-206-XX	MICRO INDUCTOR	10MMH					
L308	1-407-210-XX	MICRO INDUCTOR	22MMH					
L311	1-407-693-11	MICRO INDUCTOR	10UH					
L451	1-407-707-11	MICRO INDUCTOR	150UH					
		<u>TRANSISTOR</u>						
Q301	8-724-375-01	TRANSISTOR	2SC403C					
Q302	8-724-375-01	TRANSISTOR	2SC403C					
Q303	8-724-375-01	TRANSISTOR	2SC403C					
Q304	>8-729-663-47	TRANSISTOR	2SC1364					
Q307	8-729-663-47	TRANSISTOR	2SC1364					
Q309	8-729-663-47	TRANSISTOR	2SC1364					
Q310	8-729-663-47	TRANSISTOR	2SC1364					
Q311	8-729-663-47	TRANSISTOR	2SC1364					
Q312	>8-729-612-77	TRANSISTOR	ZSA1027R					
Q313	8-729-663-47	TRANSISTOR	2SC1364					
Q314	>8-729-612-77	TRANSISTOR	ZSA1027R					
Q315	8-729-663-47	TRANSISTOR	2SC1364					
Q316	8-729-663-47	TRANSISTOR	2SC1364					
Q317	8-729-663-47	TRANSISTOR	2SC1364					
Q319	>8-729-374-02	TRANSISTOR	ZSB740					
Q320	8-729-307-62	TRANSISTOR	ZSD475-A					

## NOTE

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- $\Rightarrow$ : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
  - Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS	RESISTORS	COILS
• MF : $\mu\text{F}$ , PF : $\mu\mu\text{F}$	• All resistors are in ohms	• MMH : $\text{mH}$ , UH : $\mu$
	• F : nonflammable	

Ref. No	Part No	Description	Remark	Ref. No	Part No	Description	Remark		
R354	1-246-517-00	CARBON	68K 5%	1/4W	R411	1-246-457-00	CARBON	220 5%	1/4W
R355	1-246-489-00	CARBON	4.7K 5%	1/4W	R412	1-244-869-00	CARBON	680 5%	1/2W
R358	1-246-517-00	CARBON	68K 5%	1/4W	R414	1-246-458-00	CARBON	240 5%	1/4W
R359	1-246-497-00	CARBON	10K 5%	1/4W	R415	1-244-868-11	CARBON	620 5%	1/2W
R360	1-246-531-00	CARBON	270K 5%	1/4W	R416	1-246-537-00	CARBON	470K 5%	1/4W
R361	1-246-499-00	CARBON	12K 5%	1/4W	R417	1-246-481-00	CARBON	2.2K 5%	1/4W
R362	1-246-467-00	CARBON	560 5%	1/4W	R418	1-246-457-00	CARBON	220 5%	1/4W
R363	1-246-467-00	CARBON	560 5%	1/4W	R422	1-246-457-00	CARBON	220 5%	1/4W
R364	1-246-467-00	CARBON	560 5%	1/4W	R425	1-246-509-00	CARBON	33K 5%	1/4W
R365	1-246-477-00	CARBON	1.5K 5%	1/4W	R426	1-246-477-00	CARBON	1.5K 5%	1/4W
R366	1-246-477-00	CARBON	1.5K 5%	1/4W	R427	1-246-477-00	CARBON	1.5K 5%	1/4W
R367	1-246-477-00	CARBON	1.5K 5%	1/4W	R429	1-246-441-00	CARBON	47 5%	1/4W
R368	1-246-485-00	CARBON	3.3K 5%	1/4W	R430	1-246-449-00	CARBON	100 5%	1/4W
R369	1-246-485-00	CARBON	3.3K 5%	1/4W	R434	1-246-515-00	CARBON	56K 5%	1/4W
R370	1-246-485-00	CARBON	3.3K 5%	1/4W	R440	1-246-457-00	CARBON	220 5%	1/4W
R371	1-246-515-00	CARBON	56K 5%	1/4W	R451	1-246-449-00	CARBON	100 5%	1/4W
R372	1-246-511-25	CARBON	39K 5%	1/4W	R452	1-246-477-00	CARBON	1.5K 5%	1/4W
R373	1-246-457-00	CARBON	220 5%	1/4W	R453	1-246-477-00	CARBON	1.5K 5%	1/4W
R374	1-246-495-00	CARBON	8.2K 5%	1/4W	R454	1-246-475-00	CARBON	1.2K 5%	1/4W
R375	1-246-513-00	CARBON	47K 5%	1/4W	R455	1-246-449-00	CARBON	100 5%	1/4W
R376	1-246-531-00	CARBON	270K 5%	1/4W	R456	1-246-469-00	CARBON	680 5%	1/4W
R377	1-246-473-00	CARBON	1K 5%	1/4W	R457	1-246-491-00	CARBON	5.6K 5%	1/4W
R378	1-246-509-00	CARBON	33K 5%	1/4W	R458	1-246-470-00	CARBON	750 5%	1/4W
R379	1-246-485-00	CARBON	3.3K 5%	1/4W	R459	1-246-491-00	CARBON	5.6K 5%	1/4W
R380	1-246-475-00	CARBON	1.2K 5%	1/4W	R460	1-246-469-00	CARBON	680 5%	1/4W
R381	1-246-473-00	CARBON	1K 5%	1/4W	R461	1-246-491-00	CARBON	5.6K 5%	1/4W
R382	1-246-497-00	CARBON	10K 5%	1/4W	R462	1-244-869-00	CARBON	680 5%	1/2W
R383	1-246-481-00	CARBON	2.2K 5%	1/4W	R463	1-246-499-00	CARBON	12K 5%	1/4W
R384	1-246-473-00	CARBON	1K 5%	1/4W	R464	1-246-489-00	CARBON	4.7K 5%	1/4W
R385	1-246-485-00	CARBON	3.3K 5%	1/4W	R465	1-246-473-00	CARBON	1K 5%	1/4W
R386	1-246-485-00	CARBON	3.3K 5%	1/4W	R466	1-246-461-00	CARBON	330 5%	1/4W
R387	1-246-497-00	CARBON	10K 5%	1/4W	R467	1-214-136-00	METAL	1.5K 1%	1/4W
R388	1-246-497-00	CARBON	10K 5%	1/4W	R468	1-214-132-00	METAL	1K 1%	1/4W
R389	1-246-461-00	CARBON	330 5%	1/4W	R469	1-246-475-00	CARBON	1.2K 5%	1/4W
R390	1-246-469-00	CARBON	680 5%	1/4W	R470	1-246-487-00	CARBON	3.9K 5%	1/4W
R391	1-246-473-00	CARBON	1K 5%	1/4W	R471	1-246-441-00	CARBON	47 5%	1/4W
R392	1-246-473-00	CARBON	1K 5%	1/4W	R472	1-246-490-00	CARBON	5.1K 5%	1/4W
R393	1-246-509-00	CARBON	33K 5%	1/4W	R473	1-246-497-00	CARBON	10K 5%	1/4W
R394	1-246-489-00	CARBON	4.7K 5%	1/4W	R475	1-246-465-00	CARBON	470 5%	1/4W
R395	1-246-480-00	CARBON	2K 5%	1/4W	R476	1-217-305-00	WIREWOUND	39 10% SW	F
R396	1-246-477-00	CARBON	1.5K 5%	1/4W	R477	1-246-505-15	CARBON	22K 5%	1/4W
R397	1-246-483-00	CARBON	2.7K 5%	1/4W	R478	1-202-657-11	COMPSITION	3.3M	
R398	1-246-471-00	CARBON	820 5%	1/4W			VARIABLE RESISTOR		
R400	1-246-483-00	CARBON	2.7K 5%	1/4W					
R401	1-246-481-00	CARBON	2.2K 5%	1/4W					
R403	1-246-473-00	CARBON	1K 5%	1/4W	R301	1-222-515-31	RES, ADJ, CARBON	330	
R404	1-246-483-00	CARBON	2.7K 5%	1/4W	R303	1-222-785-31	RES, ADJ, CARBON	2.2K	
R405	1-246-477-00	CARBON	1.5K 5%	1/4W	R304	1-222-518-31	RES, ADJ, CARBON	4.7K	
R406	1-246-505-00	CARBON	22K 5%	1/4W	R305	1-228-100-00	RES, ADJ, CARBON	10K	
R407	1-246-497-00	CARBON	10K 5%	1/4W	R306	1-228-100-00	RES, ADJ, CARBON	10K	
R408	1-246-483-00	CARBON	2.7K 5%	1/4W	R307	1-226-100-00	RES, ADJ, CARBON	10K	
R409	1-246-517-00	CARBON	68K 5%	1/4W	R451	1-222-517-12	RES, ADJ, CARBON	1K	
				R452	1-224-104-00	RES, ADJ, CARBON	330		
				R453	1-226-100-00	RES, ADJ, CARBON	330		

**NOTE:**  
The components identified by  
shading and mark **A** are critical  
for safety. Replace only with  
part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
  - CAPACITORS
  - RESISTORS
  - COILS
  - MF :  $\mu F$ , PF :  $\mu\mu F$
  - All resistors are in ohms
  - MHH :  $mH$ , UH :  $\mu H$
  - F : nonflammable

B P Q

Q C

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	
RV454	1-224-964-00	RES, ADJ, CARBON 330		C216	1-108-634-11	MYLAR	0.047MF 10%	
RV455	1-224-938-00	RES, ADJ, METAL FILM 2K		C217	1-123-321-00	ELECT	220MF 16V	
		TRANSFORMER		C218	1-123-319-00	ELECT	47MF 16V	
T301	1-425-927-00	TRANSFORMER, BANDPASS (BPT)		C219	1-108-634-11	MYLAR	0.047MF 10%	
T302	1-404-081-00	TRANSFORMER, DELAY ADJUST		C220	1-123-319-00	ELECT	47MF 16V	
T303	1-405-733-00	COIL, OSCILLATOR, APC		C221	1-102-947-00	CERAMIC	10PF 5%	
T304	1-425-928-00	TRANSFORMER, DELAY ADJUSTING		C222	1-102-947-00	CERAMIC	10PF 5%	
T305	1-404-146-00	TRANSFORMER		C223	1-102-947-00	CERAMIC	10PF 5%	
T306	1-407-573-00	COIL, VARIABLE 47MH		C224	1-102-947-00	CERAMIC	10PF 5%	
T307	1-407-573-00	COIL, VARIABLE 47MH		C225	1-108-634-11	MYLAR	0.047MF 10%	
T309	1-425-784-00	TRANSFORMER, TAKE OFF (T.O.T.)		C226	1-123-333-00	ELECT	100MF 25%	
		CRYSTAL		C227	1-123-333-00	ELECT	100MF 25%	
X301	1-527-345-00	CRYSTAL, OSC		C228	1-123-333-00	ELECT	47MF 25%	
*****	*****	*****	*****	C229	1-123-333-00	ELECT	100MF 25%	
●:1-601-459-00	P BOARD		E-55	C230	1-123-333-00	ELECT	47MF 25%	
		CAPACITOR		C232	1-108-634-11	MYLAR	0.047MF 10%	
C901	1-108-692-11	MYLAR	0.01MF	C233	1-123-352-00	ELECT	1MF 20%	
C907	1-123-362-00	ELECT	330MF	C234	1-108-634-11	MYLAR	0.047MF 10%	
		COIL		C235	1-123-352-00	ELECT	1MF 20%	
L901	1-407-704-11	MICRO INDUCTOR 82UH					DIODE	
		RESISTOR		D201	8-719-422-21	DIODE 1T22AM		
R905	1-246-485-00	CARBON	3.3K	IC	D202	8-719-815-55	DIODE 1S1555	
R908	1-246-441-00	CARBON	47	IC	D203	>8-719-930-12	DIODE EQB01-1Z2	
		TRANSFORMER		IC201	8-751-300-00	IC CX-130		
T902 Δ-1-439-212-00	TRANSFORMER, FLYBACK		E-65	IC202	8-751-300-00	IC CX-130		
*****	*****	*****	*****	IC203	8-751-300-00	IC CX-130		
●:A-1275-032-A	Q BOARD, COMPLETE		E-7				CONNECTOR	
		CAPACITOR		Q1	●:1-508-765-00	4P PLUG (M)		
C201	1-123-329-00	ELECT	10MF	Q2	●:1-508-765-00	3P PLUG (M)		
C202	1-123-329-00	ELECT	10MF	Q3	●:1-508-765-00	3P PLUG (M)		
C203	1-123-321-00	ELECT	220MF	Q4	●:1-508-768-00	6P PLUG		
C204	1-123-319-00	ELECT	47MF	Q5	●:1-508-765-00	3P PLUG (M)		
C205	1-108-634-11	MYLAR	0.047MF	Q6	●:1-508-765-00	3P PLUG (M)		
				Q7	●:1-508-784-00	1P PLUG		
				Q8	●:1-508-784-00	1P PLUG		
							TRANSISTOR	
C206	1-123-329-00	ELECT	10MF	Q201	8-729-663-47	TRANSISTOR 2SC1364		
C207	1-123-329-00	ELECT	10MF	Q202	8-729-663-47	TRANSISTOR 2SC1364		
C208	1-123-319-00	ELECT	47MF	Q203	>8-729-612-77	TRANSISTOR 2SA1027R		
C209	1-123-319-00	ELECT	47MF	Q204	8-729-663-47	TRANSISTOR 2SC1364		
C210	1-123-319-00	ELECT	47MF	Q205	8-729-663-47	TRANSISTOR 2SC1364		
				Q206	8-729-663-47	TRANSISTOR 2SC1364		
				Q207	8-729-663-47	TRANSISTOR 2SC1364		
				Q208	8-729-663-47	TRANSISTOR 2SC1364		
				Q209	8-729-663-47	TRANSISTOR 2SC1364		
				Q210	>8-729-612-77	TRANSISTOR 2SA1027R		
C211	1-123-329-51	ELECT	10MF					
C212	1-123-320-00	ELECT	100MF					
C213	1-123-328-00	ELECT	4.7MF					
C214	1-123-329-00	ELECT	1.0MF					
C215	1-123-329-00	ELECT	1.0MF					

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark		
Q213	>8-729-612-77	TRANSISTOR 2SA1027R		R247	1-246-449-00	CARBON	100 5% 1/4W		
Q214	8-729-663-47	TRANSISTOR 2SC1364		R248	1-246-469-00	CARBON	680 5% 1/4W		
Q215	8-729-663-47	TRANSISTOR 2SC1364		R249	1-246-479-00	CARBON	1.8K 5% 1/4W		
Q216	8-729-663-47	TRANSISTOR 2SC1364		R250	1-246-465-00	CARBON	470 5% 1/4W		
Q217	8-729-663-47	TRANSISTOR 2SC1364		R251	1-246-519-00	CARBON	82K 5% 1/4W		
<u>RESISTOR</u>									
R201	1-246-497-00	CARBON	10K 5% 1/4W	R252	1-246-497-00	CARBON	10K 5% 1/4W		
R202	1-246-516-00	CARBON	62K 5% 1/4W	R253	1-246-449-00	CARBON	100 5% 1/4W		
R203	1-246-510-00	CARBON	36K 5% 1/4W	R254	1-246-468-00	CARBON	620 5% 1/4W		
R204	1-246-489-00	CARBON	4.7K 5% 1/4W	R255	1-246-493-00	CARBON	6.8K 5% 1/4W		
R205	1-246-483-00	CARBON	2.7K 5% 1/4W	R256	1-246-482-00	CARBON	2.4K 5% 1/4W		
R206	1-246-449-00	CARBON	100 5% 1/4W	R257	1-211-534-11	CARBON	330 5% 1/4W F		
R207	1-211-533-00	CARBON	300 5% 1/4W F	R258	1-246-487-00	CARBON	3.9K 5% 1/4W		
R208	1-246-473-00	CARBON	1K 5% 1/4W	R259	1-246-482-00	CARBON	2.4K 5% 1/4W		
R209	1-246-497-00	CARBON	10K 5% 1/4W	R260	1-246-473-00	CARBON	1K 5% 1/4W		
R210	1-246-516-00	CARBON	62K 5% 1/4W	R261	1-246-485-00	CARBON	3.3K 5% 1/4W		
<u>TRANSFORMER</u>									
R211	1-246-510-00	CARBON	36K 5% 1/4W	T201	1-409-193-00	COIL 3.5MHZ TRAP			
R212	1-246-489-00	CARBON	4.7K 5% 1/4W	T202	1-409-193-00	COIL 3.5MHZ TRAP			
R213	1-246-483-00	CARBON	2.7K 5% 1/4W	*****					
R214	1-246-449-00	CARBON	100 5% 1/4W	*****					
R215	1-246-449-00	CARBON	100 5% 1/4W	*****					
R216	1-246-516-00	CARBON	62K 5% 1/4W	♦:A-1330-271-A C BOARD, COMPLETE					
R217	1-246-501-00	CARBON	15K 5% 1/4W	E-57					
R218	1-246-459-00	CARBON	270 5% 1/4W	1-509-545-00 SOCKET, CRT MOLD					
R219	1-246-472-00	CARBON	910 5% 1/4W	♦:1-603-385-00 PC BOARD, C					
R220	1-246-490-00	CARBON	5.1K 5% 1/4W	*****					
<u>CONNECTOR</u>									
R221	1-246-485-00	CARBON	3.3K 5% 1/4W	B11	♦:1-509-839-82	CONNECTOR ASSY, 3P			
R222	1-246-485-00	CARBON	3.3K 5% 1/4W	C1	♦:1-508-765-00	3P PLUG (M)			
R223	1-246-497-00	CARBON	10K 5% 1/4W	*****					
R224	1-246-491-00	CARBON	5.6K 5% 1/4W	*****					
R225	1-246-465-00	CARBON	470 5% 1/4W	*****					
R226	1-246-523-00	CARBON	120K 5% 1/4W	*****					
R227	1-246-537-00	CARBON	470K 5% 1/4W	C721	1-108-638-00	MYLAR	0.1MF 10% 100V		
R228	1-246-497-00	CARBON	10K 5% 1/4W	C722	1-102-030-00	CERAMIC	330PF 10% 500V		
R229	1-246-487-00	CARBON	3.9K 5% 1/4W	C723	1-102-155-00	CERAMIC	330PF 20% 2KV		
R230	1-246-479-00	CARBON	1.8K 5% 1/4W	COIL					
R231	1-246-473-00	CARBON	1K 5% 1/4W	L701	1-407-709-00	MICRO INDUCTOR 220UH			
R232	1-246-449-00	CARBON	100 5% 1/4W	NEON LAMP					
R233	1-211-533-00	CARBON	300 5% 1/4W F	NL721	1-519-108-XX	LAMP, NEON ASSY			
R234	1-246-473-00	CARBON	1K 5% 1/4W	*****					
R235	1-246-449-00	CARBON	100 5% 1/4W	*****					
R236	1-246-471-00	CARBON	820 5% 1/4W	*****					
R237	1-246-449-00	CARBON	100 5% 1/4W	*****					
R238	1-246-483-00	CARBON	2.7K 5% 1/4W	Q701	8-729-322-78	TRANSISTOR 2SC2278			
R239	1-246-487-00	CARBON	3.9K 5% 1/4W	Q702	8-729-322-78	TRANSISTOR 2SC2278			
R240	1-246-449-00	CARBON	100 5% 1/4W	Q703	8-729-322-78	TRANSISTOR 2SC2278			
<u>RESISTOR</u>									
R241	1-246-469-00	CARBON	680 5% 1/4W	R710	1-213-158-00	METAL	18K 5% 1W F		
R242	1-246-479-00	CARBON	1.8K 5% 1/4W	R711	1-213-158-00	METAL	18K 5% 1W F		
R243	1-246-465-00	CARBON	470 5% 1/4W	R712	1-213-158-00	METAL	18K 5% 1W F		
R244	1-246-505-00	CARBON	22K 5% 1/4W	R713	1-202-581-00	COMPOSITION	2.2K 10% 1/2W		
R245	1-246-490-00	CARBON	5.1K 5% 1/4W	R714	1-202-581-00	COMPOSITION	2.2K 10% 1/2W		
R246	1-246-519-00	CARBON	82K 5% 1/4W						

## NOTE

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- $\Rightarrow$ : Due to standardization interchangeable replacement may be substituted for parts specified in the diagrams.

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS	RESISTORS	COILS
• MF : $\mu$ F, PF : $\mu\mu$ F	• All resistors are in ohms • F : nonflammable	• MMH : mH, UH : $\mu$ H

**NOTE :**

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- CAPACITORS                    RESISTORS                    COILS  
 MF :  $\mu$ F, PF :  $\mu$ PF     • All resistors are in ohms     • MMH : mH, UH :  $\mu$ H  
                               F : nonflammable

C

D

Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark	Ref.No	Part No	Description	Remark				
R715	1-202-581-00	COMPISITION	2.2K 10% 1/2W	C526	1-102-106-00	CERAMIC	100PF 10% 50V	D509	8-719-815-55	DIODE 1S1555		R509	1-246-509-00	CARBON	33K 5% 1/4W				
R720	1-202-629-35	COMPISITION	220K 10% 1/2W	C527	1-102-020-00	CERAMIC	330PF 10% 500V	D510	8-719-815-55	DIODE 1S1555		R510	1-246-477-00	CARBON	1.5K 5% 1/4W				
R721	1-246-537-00	CARBON	470K 5% 1/4W	C528	Δ-1-130-118-00	FILM	0.051MF 5% 400V	D511	=>8-719-300-76	DIODE RH1A		R511	1-246-459-00	CARBON	270 1/4W				
R723	1-202-647-35	COMPISITION	1.2M 10% 1/2W	C529	Δ-1-129-708-00	FILM	0.0033MF 10% 630V	D512	8-719-300-70	DIODE RH1C		R511	1-246-461-00	CARBON	330 1/4W				
R724	1-202-647-35	COMPISITION	1.2M 10% 1/2W	C530	1-123-359-00	ELECT	47MF 20% 50V	D514	8-719-930-19	DIODE EQB01-19Z		R511	1-246-465-00	CARBON	470 1/4W				
R725	1-202-621-00	COMPISITION	100K 10% 1/2W	C531	1-123-331-00	ELECT	33MF 20% 25V	D515	8-719-815-55	DIODE 1S1555		R511	1-246-468-00	CARBON	620 1/4W				
R726	1-213-046-51	FUSIBLE	2.7 5% 1W F	C535	1-108-692-61	MYLAR	0.01MF 10% 200V	D516	8-719-815-55	DIODE 1S1555		R511	1-246-471-00	CARBON	820 1/4W				
<u>VARIABLE RESISTOR</u>																			
RV721	1-226-053-00	RES, ADJ, METAL GLAZE 3.3M		C536	Δ-1-108-913-31	FILM	0.02MF 20% 300V	D517	8-719-815-55	DIODE 1S1555		R511	1-246-475-00	CARBON	1.2K 5% 1/4W				
<u>SPARK GAP</u>																			
S6721	1-519-063-XX	DISCHARGING GAP 1.5K		C541	1-131-158-52	TANTALUM	10MF 20% 16V	D518	=>8-719-200-02	DIODE 1OE2		R511	1-246-477-00	CARBON	1.5K 1/4W				
S6722	1-519-063-XX	DISCHARGING GAP 1.5K		C542	1-123-322-00	ELECT	330MF 20% 16V	D519	=>8-719-200-02	DIODE 1OE2		R511	1-246-480-00	CARBON	2K 1/4W				
S6724	1-519-063-XX	DISCHARGING GAP 1.5K		C543	1-108-628-11	MYLAR	0.015MF 10% 100V	D520	=>8-719-200-02	DIODE 1OE2		R511	1-246-483-00	CARBON	2.7K 1/4W				
*****																			
A-1345-294-A D BOARD, COMPLETE			E-63	C544	1-123-318-00	ELECT	33MF 20% 16V	FUSE				R511	1-246-489-00	CARBON	4.7K 5% 1/4W				
A-1-508-801-00 U TYPE BASE POST 4P				C545	1-123-331-00	ELECT	33MF 20% 25V	F501	Δ-1-532-286-00	TIME-LAG FUSE 2.5A		R516	1-246-499-00	CARBON	12K 5% 1/4W				
1-517-072-00 LAMP HOLDER				C550	1-123-318-00	ELECT	220MF 20% 25V	F502	Δ-1-532-286-00	TIME-LAG FUSE 2.5A		R511	1-246-483-00	CARBON	2.7K 5% 1/4W				
A-1-536-354-00 POST PIN				C552	1-123-316-00	ELECT	10MF 20% 16V	F503	Δ-1-532-087-00	TIME-LAG FUSE 1A		R518	1-246-497-00	CARBON	10K 5% 1/4W				
A-3701-832-00 HINGE, CIRCUIT BOARD				C553	1-108-632-11	MYLAR	0.033MF 10% 100V	COIL				R520	1-246-487-00	CARBON	3.9K 5% 1/4W				
A-4-020-729-00 HEAT SINK, H OUT				C554	1-108-638-00	MYLAR	0.1MF 10% 100V	L501	1-405-760-00	COIL, OSC		R521	1-246-477-00	CARBON	1.5K 5% 1/4W				
A-4-323-833-00 HEAT SINK, PIN OUT				C555	1-123-267-00	ELECT	2.2MF 20% 160V	L502	1-407-198-XX	MICRO INDUCTOR 2.2MH		R522	1-246-425-00	CARBON	10 5% 1/4W				
CAPACITOR				C556	1-102-106-00	CERAMIC	100PF 10% 50V	L503	Δ-1-521-352-00	MICRO INDUCTOR 2.2MH		R523	1-246-508-00	CARBON	30K 5% 1/4W				
C501		1-102-189-00 CERAMIC	0.0047MF	C557	1-102-106-00	CERAMIC	100PF 10% 50V	L504	1-435-056-00	HMC		R524	1-246-435-00	CARBON	27 5% 1/4W				
C502		1-102-189-00 CERAMIC	0.0047MF	C558	1-102-002-00	CERAMIC	680PF 10% 500V	L505	1-407-191-XX	MICRO INDUCTOR 470UH		R525	1-246-467-00	CARBON	560 5% 1/4W				
C503		1-102-189-00 CERAMIC	0.0047MF	C559	1-108-628-11	MYLAR	0.015MF 10% 100V	TRANSISTOR				R526	1-246-469-00	CARBON	680 5% 1/4W				
C504		1-102-189-00 CERAMIC	0.0047MF	C560	1-108-632-11	MYLAR	0.033MF 10% 100V	Q501	8-729-663-47	TRANSISTOR 2SC1364		R527	1-244-885-00	CARBON	3.3K 5% 1/2W				
C505		1-123-364-00 ELECT	1000MF 20% 50V	C561	1-123-364-00	ELECT	1000MF 20% 50V	Q502	8-729-663-47	TRANSISTOR 2SC1364		R528	1-206-648-00	METAL	220 5% 24 F				
C506		1-123-357-00 ELECT	22MF 20% 50V	C564	1-108-630-11	MYLAR	0.022MF 10% 100V	Q503	8-729-663-47	TRANSISTOR 2SC1364		R529	1-212-368-00	METAL	4.7 5% 14 F				
C507		1-123-361-00 ELECT	220MF 20% 50V	C565	1-108-642-11	MYLAR	0.22MF 20% 100V	Q504	=>8-729-384-48	TRANSISTOR 2SA844		R530	Δ-1-520-804-00	COMPISITION	100MF 10% 14 F				
C508		1-102-115-00 CERAMIC	560PF 10% 50V	CONNECTOR				Q505	=>8-729-384-48	TRANSISTOR 2SA844		R531	1-246-981-00	CARBON	4.7 5% 1/84 F				
C509		1-123-361-00 ELECT	220MF 20% 50V	D1	Δ-1-508-765-00	3P PLUG (M)		Q506	8-729-663-47	TRANSISTOR 2SC1364		R532	1-246-979-00	CARBON	1.2 5% 1/84 F				
C510		1-102-115-00 CERAMIC	560PF 10% 50V	D2	Δ-1-508-766-00	4P PLUG (M)		Q507	8-727-580-26	TRANSISTOR 2SD625-803		R533	1-205-532-00	WIREWOUND	3.3 10% 104 F				
C511		1-123-352-00 ELECT	1MF 20% 50V	D3	Δ-1-508-765-00	3P PLUG (M)		Q508	8-729-663-47	TRANSISTOR 2SC1364		R534	1-246-447-00	CARBON	82 5% 1/4W				
C512		1-108-639-00 MYLAR	0.1MF 10% 100V	D4	Δ-1-508-765-00	3P PLUG (M)		Q509	8-762-110-00	TRANSISTOR 2SC1670		R535	1-246-453-00	CARBON	150 5% 1/4W				
C513		1-108-630-11 MYLAR	0.022MF 10% 100V	D5	Δ-1-508-786-00	2P PLUG (M)		Q510	8-762-210-00	TRANSISTOR 2SA840		R535	1-246-455-00	CARBON	180 5% 1/4W				
C514		1-108-622-11 MYLAR	0.0047MF 10% 100V	D6	Δ-1-508-786-00	2P PLUG (M)		Q511	8-762-110-00	TRANSISTOR 2SC1670		R535	1-246-457-00	CARBON	220 5% 1/4W				
C515		1-108-632-11 MYLAR	0.033MF 10% 100V	D7	Δ-1-508-784-00	1P PLUG		Q512	8-729-663-47	TRANSISTOR 2SC1364		R535	1-246-459-00	CARBON	270 5% 1/4W				
C516		1-123-351-00 ELECT	0.47MF 20% 50V	DIODE				Q513	8-729-307-62	TRANSISTOR 2SD476A03C		R535	1-246-461-00	CARBON	330 5% 1/4W				
C517		1-108-614-11 MYLAR	0.001MF 10% 100V	R501	1-246-484-00	CARBON	3K 5% 1/4W	Q514	8-729-307-62	TRANSISTOR 2SD476A03C		R535	1-246-465-00	CARBON	470 5% 1/4W				
C518		1-102-002-51 CERAMIC	680P 10% 500V	R502	1-246-986-11	CARBON	39 5% 1/8W F	Q515	8-729-663-47	TRANSISTOR 2SC1364		R535	1-246-467-00	CARBON	560 5% 1/4W				
C519		1-123-354-00 ELECT	3.3MF 20% 50V	R503	1-246-487-00	CARBON	3.9K 5% 1/4W	Q516	1-244-877-00	CARBON	1.5K 5% 1/2W	R536	1-246-501-25	CARBON	15K 5% 1/4W				
C520		1-130-117-00 FILM	0.033MF 5% 100V	R504	1-246-523-00	CARBON	120K 5% 1/4W	Q517	1-246-490-00	CARBON	9.1K 5% 1/4W	R537	1-246-421-00	CARBON	47K 5% 1/4W				
C521		1-108-638-00 MYLAR	0.1MF 10% 100V	R505	1-246-494-00	CARBON	7.5K 5% 1/4W	Q518	1-246-496-00	CARBON	3.3 5% 1/4W	R538	1-246-413-00	CARBON	47K 5% 1/4W				
C522		1-123-330-00 ELECT	22MF 20% 25V	D506	8-719-815-55	DIODE 1S1555		R506	1-246-483-00	CARBON	2.7K 5% 1/4W	R539	1-246-495-00	CARBON	8.2K 5% 1/4W				
C523		1-123-253-00 ELECT	22MF 20% 160V	D507	=>8-719-931-07	DIODE EQB01-07		R507	1-246-491-00	CARBON	5.6K 5% 1/4W	R540	1-246-473-00	CARBON	1K 5% 1/4W				
C524		1-123-352-00 ELECT	1MF 20% 50V	D508	=>8-719-300-76	DIODE RH1A		R508	1-246-481-00	CARBON	2.2K 5% 1/4W	R541	1-246-471-00	CARBON	820 5% 1/4W				
C525		1-102-106-00 CERAMIC	100PF 10% 50V	RESISTORS				CAPACITORS				COILS							
• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.								• MF : $\mu$ F, PF : $\mu$ PF				• MMH : mH, UH : $\mu$ H							
• All resistors are in ohms								• All resistors are in ohms				• MMH : mH, UH : $\mu$ H							
• F : nonflammable								• F : nonflammable				• COILS							

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

=> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

All resistors are in ohms

F : nonflammable

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS

RESISTORS

COILS

• MF :  $\mu$ F, PF :  $\mu$ PF

• All resistors are in ohms

• F : nonflammable

• Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

D H

<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>			<u>Remark</u>	<u>Ref.No</u>	<u>Part No</u>	<u>Description</u>			<u>Remark</u>	
R554	1-246-505-00	CARBON	22K	5%	1/4W	R406	1-246-501-00	CARBON	15K	5%	1/4W	
R555	1-246-471-00	CARBON	820	5%	1/4W	R407	1-246-517-00	CARBON	68K	5%	1/4W	
R556	1-246-451-00	CARBON	120	5%	1/4W	R409	1-246-493-00	CARBON	6.8K	5%	1/4W	
R557	1-246-872-11	CARBON	3.3	5%	1/4W F	R410	1-246-482-00	CARBON	2.4K	5%	1/4W	
R558	1-246-872-11	CARBON	3.3	5%	1/4W F			<u>SWITCH</u>				
R559	1-246-465-00	CARBON	470	5%	1/4W	S907	1-552-897-00	SWITCH, LEVER				
R560	1-207-460-00	WIREWOULD	0.56	10%	1/2W F	S908	1-552-897-00	SWITCH, LEVER				
R561	1-246-485-25	CARBON	3.3K	5%	1/4W	S909	1-552-897-00	SWITCH, LEVER				
R564	1-246-467-00	CARBON	560	5%	1/4W			*****				
R565	1-246-469-00	CARBON	680	5%	1/4W			<u>MISCELLANEOUS</u>				
R566	1-246-480-00	CARBON	2K	5%	1/4W			1-226-052-00	RES, VAR, HIGH-VOLTAGE			
R567	1-246-511-00	CARBON	39K	5%	1/4W			1-452-032-00	MAGNET DISK; 10mm Ø	E-5		
R568	1-246-485-00	CARBON	3.3K	5%	1/4W			1-452-126-11	MAGNET	E-6		
R569	1-246-469-00	CARBON	680	5%	1/4W			Δ1-452-050-31	HIGH-VOLTAGE BLOCK, DC	E-5		
R570	1-246-497-00	CARBON	10K	5%	1/4W			Δ1-509-805-00	3P CONNECTOR ASSY			
R571	1-246-442-00	CARBON	51	5%	1/4W			Δ1-509-808-00	CONNECTOR, 4P			
R573	1-246-441-00	CARBON	47	5%	1/4W			Δ1-509-825-00	6P CONNECTOR ASSY			
R574	1-206-481-00	METAL	56	5%	2W F			Δ1-509-831-00	1P CONNECTOR ASSY			
R577	1-244-907-00	CARBON	27K	5%	1/2W			Δ1-509-833-00	CONNECTOR ASSY, MINIATURE, 1P			
R578	1-206-479-00	METAL	47	5%	2W F			Δ1-509-834-32	CONNECTOR, 3P			
<u>VARIABLE RESISTOR</u>												
RV501	1-222-517-12	RES, ADJ, CARBON	1K					Δ1-509-888-00	CONNECTOR ASSY, 2P			
RV502	1-223-102-00	RES, ADJ, WIREWOULD	120					Δ1-551-442-00	POWER CORD			
RV503	1-222-786-12	RES, ADJ, CARBON	22K					Δ1-551-450-00	CONNECTOR ASSY, 3P			
RV504	1-222-517-12	RES, ADJ, CARBON	1K					Δ1-551-604-00	CONNECTOR ASSY, MINIATURE 3P			
RV505	1-222-786-12	RES, ADJ, CARBON	22K					Δ1-551-605-00	CONNECTOR ASSY, MINIATURE 3P			
<u>TRANSFORMER</u>												
T501	1-437-021-00	TRANSFORMER, HORIZONTAL DRIVE						Δ1-551-608-00	CONNECTOR ASSY, MINIATURE 3P			
T502	Δ1-421-268-00	TRANSFORMER						Δ1-551-616-00	CONNECTOR ASSY, MINIATURE 4P			
<u>THERMISTOR</u>												
TH501	1-800-070-XX	Thermistor TH-4700						Δ1-551-960-00	CONNECTOR ASSY, 1P			
<u>POSISTOR</u>												
THP501	Δ1-800-275-00	POSISTOR						Δ1-555-026-00	CONNECTOR ASSY, MINIATURE 3P			
<u>DIODE</u>												
D401	>-8-719-422-21	DIODE 1T22AM						Δ1-561-021-00	CONNECTOR ASSY, MINIATURE 3P			
<u>RESISTOR</u>												
R401	1-246-495-00	CARBON	3.3K	5%	1/4W	CNJ901	Δ1-561-167-00	CONNECTOR			E-2	
R402	1-246-495-00	CARBON	8.2K	5%	1/4W	CNJ902	Δ1-561-167-00	CONNECTOR			E-2	
R403	1-246-485-00	CARBON	3.3K	5%	1/4W	CNJ903	Δ1-561-167-00	CONNECTOR			E-2	
R404	1-246-480-00	CARBON	2K	5%	1/4W	CNJ904	Δ1-561-167-00	CONNECTOR			E-2	
R405	1-246-501-00	CARBON	15K	5%	1/4W	CNJ905	Δ1-561-167-00	CONNECTOR			E-2	
<u>DIODE</u>												
Δ1-603-386-00	H BOARD					CNJ906	Δ1-561-167-00	CONNECTOR			E-2	
Δ1-508-765-00	3P PLUG (M)					F504	Δ1-532-235-11	FUSE 315mA				
D401 =>8-719-422-21	DIODE 1T22AM					F505	Δ1-532-078-11	FUSE 1A				
<u>RESISTOR</u>						L901	Δ1-451-145-00	DEFLECTION Yoke			E-58	
R901	1-244-646-11	RES, CARBON 75				L903	Δ1-425-856-21	COIL, ERASE			E-60	
R902	1-244-646-11	RES, CARBON 75				L904	Δ1-425-856-21	COIL, ERASE			E-60	
R903	1-244-646-11	RES, CARBON 75				NL904	Δ1-519-125-81	LAMP, NEON ASSY			E-61	
R906	1-202-837-00	RES, SOLID 82K 1/2W				0901	8-729-311-42	TRANSISTOR 2SC114-0			E-54	
R907	1-205-603-00	RES, WIREWOULD 27 20W				0901	1-244-646-11	RES, CARBON 75			E-55	
R908	1-222-627-11	RES, VAR, CARBON 5K				R902	1-224-619-00	RES, VAR, CARBON 5K			E-66	
R909	1-224-619-00	RES, VAR, CARBON 5K				R903	1-244-646-11	RES, CARBON 75			E-68	

## NOTE

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

- | CAPACITORS                                   | RESISTORS   | COILS                          |
|--|---|--------------------------------|
| • MF : $\mu\text{F}$ , PF : $\mu\mu\text{F}$ | • All resistors are in ohms<br>• F : nonflammable | • MMH : mH, UH : $\mu\text{H}$ |

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- NOTE :**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

## STANDARD PARTS LIST

\*\*\*\* CAPACITOR ELECT \*\*\*\*

uF	6.3V	10V	16V	25V	35V	50V	100V	160V	250V	350V
	Part No.									
0.47						1-121-726	391	1-123-249	1-123-003	1-121-168
1.01							450	250	026	1-123-028
2.21							393	1-121-995	004	006
3.31					1-121-392		396	1-123-255	1-121-759	007
4.71					395					
10			1-121-651	398		738	1-121-126	999	1-123-254	008
22			478	480	1-121-662	152	999	1-123-253		022
33			403	404	652	405	997		919	
47		1-121-352	409	410	653	411	1-123-251			
100		414	415	416	352	417	084			
220	1-121-419	420	421	422	261	423				
330	751	805	321	654	655	656				
470	424	425	426	733	361	810				
1000		736	245	657	388	1-123-061				
2200	658	659	660	1-123-067	984					
3300	661	1-121-075	1-123-071							

\*\*\* CAPACITOR \*\*\*

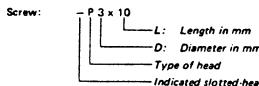
NYLAR		
uF	50V	100V
	102	102
0.001	1-108-227	1-108-365
0.0012	351	365
0.0015	228	367
0.0018	352	368
0.0022	230	369
0.0027	353	370
0.0033	232	371
0.0039	354	372
0.0047	234	373
0.0056	355	374
0.0063	237	375
0.0082	355	376
0.01	239	377
0.012	357	378
0.015	240	379
0.018	358	390
0.022	242	381
0.027	359	382
0.033	244	393
0.039	360	384
0.047	246	385
0.056	361	396
0.068	249	387
0.082	362	388
0.1	251	389
0.12	363	390
0.15	252	391
0.18	364	392
0.22	254	393
0.27	854	
0.33	855	
0.39	856	
0.47	857	

CERAMIC		
pF	Part No.	
0.5	1-101-832	1-102-973
0.75	586	110
1.0	1-102-934	120
1.5	1-101-576	130
2.0	1-102-935	150
S 3	936	S 160
L 4	937	180
5	942	200
6	943	220
7	944	240
8	945	270
9	946	300
10	947	330
11	948	360
12	949	390
13	950	430
15	951	470
16	932	510
18	953	
20	958	560
22	959	630
24	960	820
27	961	1000
30	962	1200
33	963	1500
36	964	B 1800
39	965	2200
43	966	2700
47	1-101-880	3300
51	882	3900
56	884	4700
62	886	5600
68	888	6300
75	890	8200
82	891	10000
91	972	

1/4 WATT CARBON RESISTOR

Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1.01-1-246-401-00	101-1-246-423-00	100-1-246-449-00	1..X1-246-473-00	1K1-246-497-00	100K1-246-521-00	1.01-1-246-402-00	11.01-1-246-423-00
1.11-402-00	111-426-00	1101-450-00	11K1-474-00	11K1-498-00	110K1-522-00	1.1M1-403-00	11.1M1-426-00
1.21-403-00	121-427-00	1201-451-00	12K1-475-00	12K1-499-00	120K1-523-00	1.2M1-404-00	12.2M1-428-00
1.31-404-00	131-428-00	1301-452-00	13K1-576-00	13K1-500-00	130K1-524-00	1.3M1-405-00	13.3M1-429-00
1.51-405-00	151-429-00	1501-453-00	15K1-577-00	15K1-501-00	150K1-525-00	1.5M1-406-00	15.5M1-430-00
1.61-1-246-406-00	161-1-246-430-00	160-1-246-454-00	16.8K1-246-578-00	16K1-246-502-00	160K1-246-526-00	1.61-1-246-407-00	171-1-246-431-00
1.81-407-00	181-431-00	1801-455-00	18K1-579-00	18K1-503-00	180K1-527-00	1.8M1-408-00	191-1-246-432-00
2.01-408-00	201-432-00	2001-456-00	20K1-580-00	20K1-504-00	200K1-528-00	2.0M1-409-00	221-433-00
2.21-409-00	221-433-00	2201-457-00	22K1-581-00	22K1-505-00	220K1-529-00	2.2M1-410-00	241-434-00
2.41-410-00	241-434-00	2401-458-00	24K1-502-00	24K1-506-00	240K1-530-00	2.4M1-411-00	271-1-246-435-00
2.71-1-246-411-00	271-1-246-435-00	2701-1-246-459-00	2.7K1-246-583-00	27K1-246-507-00	270K1-246-531-00	2.7M1-1-246-412-00	301-1-246-436-00
3.01-412-00	301-436-00	3001-460-00	3.0K1-584-00	30K1-508-00	300K1-532-00	3.0M1-413-00	331-1-246-437-00
3.31-413-00	331-437-00	3301-461-00	3.3K1-585-00	33K1-509-00	330K1-533-00	3.3M1-414-00	361-1-246-438-00
3.61-414-00	361-438-00	3601-462-00	3.6K1-586-00	36K1-510-00	360K1-534-00	3.6M1-415-00	391-1-246-439-00
3.91-415-00	391-439-00	3901-463-00	3.9K1-587-00	39K1-511-00	390K1-535-00	3.9M1-416-00	431-1-246-440-00
4.31-1-246-416-00	431-1-246-440-00	4301-1-246-464-00	4.3K1-246-488-00	43K1-246-512-00	430K1-246-536-00	4.3M1-1-246-417-00	471-1-246-441-00
4.71-417-00	471-441-00	4701-465-00	4.7K1-489-00	47K1-513-00	470K1-537-00	4.7M1-418-00	511-1-246-442-00
5.11-418-00	511-442-00	5101-466-00	5.1K1-490-00	51K1-514-00	510K1-538-00	5.1M1-419-00	561-1-246-443-00
5.61-419-00	561-443-00	5601-467-00	5.6K1-491-00	56K1-515-00	560K1-539-00	5.6M1-420-00	621-1-246-444-00
6.21-420-00	621-444-00	6201-468-00	6.2K1-492-00	62K1-516-00	620K1-540-00	6.2M1-421-00	681-1-246-445-00
6.81-1-246-421-00	681-1-246-445-00	6801-1-246-469-00	6.8K1-246-493-00	68K1-246-517-00	680K1-246-541-00	6.8M1-422-00	751-1-246-446-00
7.51-422-00	751-446-00	7501-470-00	7.5K1-494-00	75K1-518-00	750K1-542-00	7.5M1-423-00	821-1-246-447-00
8.21-423-00	821-447-00	8201-471-00	8.2K1-495-00	82K1-519-00	820K1-543-00	8.2M1-424-00	9101-1-246-448-00
9.11-424-00	911-448-00	9101-472-00	9.1K1-496-00	91K1-520-00	910K1-544-00	9.1M1-425-00	

## HARDWARE NOMENCLATURE



Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).

## Nut, Washer, Retaining ring:



Reference Designation	Shape	Description	Remarks
<b>SCREWS</b>			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-filister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
<b>SELF-TAPPING SCREWS</b>			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head (A, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head (A) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
<b>SET SCREWS</b>			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
<b>NUT</b>			
N		nut	
<b>WASHERS</b>			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
<b>RETAINING RINGS</b>			
E		retaining ring	
G		grip-type retaining ring	

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9-962-650-01

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